

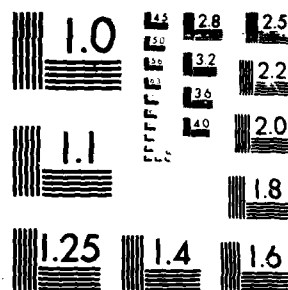
UNCLASSIFIED

NEW RIVER NORTH CAROLINA/US NAVAL OCEANOGRAPHY COMMAND  
DETACHMENT ASHEVILLE NC AUG 84

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MICROCOPY RESOLUTION TEST CHART  
NATIONAL BUREAU OF STANDARDS-1963-A

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S'MOS, New River, NC

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REPORT DOCUMENTATION PAGE		READ INSTRUCTIONS BEFORE COMPLETING FORM
1. REPORT NUMBER	2. GOVT ACCESSION NO.	3. RECIPIENT'S CATALOG NUMBER
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18. SUPPLEMENTARY NOTES		
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20. ABSTRACT (Continue on reverse side if necessary and identify by block number) This data report consists of a six part statistical summary of surface weather observations. The six parts are: Part A - Weather Conditions/ Atmospheric Phenomena, Part B - Precipitation/Snowfall/Snow Depth, Part C - Surface Winds, Part D - Ceiling versus Visibility/Sky Cover, Part E - Psychrometric Summaries, Part F - Station Pressure/Sea Level Pressure		

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## SUMMARY OF METEOROLOGICAL OBSERVATIONS, SURFACE

This update includes the period of record (POR) 1973 through 1982, with all available data through 1982 for extreme values.

This summary should be retained by individual stations along with the SMOS prepared in 1973. The retention of these summaries will provide the most comprehensive climatological file for your station.

DESCRIPTION: Preceding each section is a brief description of the data comprising each part of the summary and the manner of presentation. Tabulations are prepared from 3-hourly and daily observations recorded by stations operated by the U.S. Navy and U.S. Marine Corps. 3-hourly observations are defined as these record or record-special observations recorded at scheduled 3-hourly intervals. Daily observations are selected from all data recorded on reporting forms and combined into Summary of the Day observations (prepared from record-special, local, summary of the day, remarks, etc.).

COMMENT: All observations summarized in this tabulation have been computer edited for consistency and reasonableness prior to, or during the processing stage. Efforts to improve the quality of the data after summarization are expensive, i.e., the improvement might consist of the elimination of one suspect or erroneous value. The cost of preparing "perfect" copy can be prohibitive due to the handwork involved. Suspect cases will occur infrequently, but users should not disregard extreme values completely as some could be valid. Questionable values will most likely be single occurrences shown by a percentage frequency of "0". (This value indicates a percent less than ".05," which, in most cases, reflects a single observation.) Since most stations summarized now have in excess of 10,000 3-hourly observations, the occurrence of an occasional spurious value should not in itself be considered significant. Every effort is made by this office to maintain a high degree of accuracy and reliability in these tables, and the Naval Oceanography Command Detachment (NOCD), Asheville, N.C. welcomes your comment and criticisms.

STATION NO. AND SUMMARY 93727	STATION NAME New River, North Carolina	LATITUDE 34°42'N	LONGITUDE 77°26'W	STATION ELEV. (FT) 24	CALL SIGN KNCA	AVEN. WIND 																																																			
<b>STATION LOCATION AND INSTRUMENTATION HISTORY</b>																																																									
NUMBER OF LOCATION	GEOGRAPHICAL LOCATION & NAME	TYPE OF STATION	AT THIS LOCATION		LATITUDE	LONGITUDE	ELEVATION ABOVE MSL		PRES PER DAY																																																
			FROM	TO			FEET	TYPE BAROMETER																																																	
1.	Weather service office	MCAF	1953	1956	34°42'N	77°26'W	24	Mercurial	24																																																
2.	" " "	"	1956	1969	"	"	27	"																																																	
3.	South wall of lab.	MCAS	1969	1970	"	"	18	"																																																	
4.	North wall of lab.	"	1970				18																																																		
1a.	Weather service office	MCAF	1954	1969	"	"	19	Aneroid																																																	
2a.	GMQ-14 console	MCAS	1969	1977	"	"	19	"																																																	
3a.	Weather service office	"	1977		"	"	19																																																		
<table border="1"> <tr> <th rowspan="2">NUMBER OF LOCATION</th> <th rowspan="2">DATE OF CHANGE</th> <th colspan="4">SURFACE WIND EQUIPMENT INFORMATION</th> <th rowspan="2">REMARKS ADDITIONAL EQUIPMENT OR REASON FOR CHANGE</th> </tr> <tr> <th>LOCATION</th> <th>TYPE OF TRANSMITTER</th> <th>TYPE OF RECORDER</th> <th>HT ABOVE GROUND</th> </tr> <tr> <td>1.</td> <td>1956</td> <td>Installed roof of ops bldg</td> <td>UMQ-5A</td> <td>ID-300/A</td> <td>Unk</td> <td rowspan="6">           1. Barograph (ML-3)            2. Cloud height set (AN/GMQ-13)            3. Theodolite (ML-247)            4. Transmissometer (AN/GMQ-10C)            5. Auto met sta (GMQ-29A)            6. Radar recorder FAX (GMH-6(V))         </td> </tr> <tr> <td>2.</td> <td>Unk</td> <td>Modified " " " "</td> <td>UMQ-5C</td> <td>ID-300</td> <td>45'</td> </tr> <tr> <td>3.</td> <td>1966</td> <td>Post 2 feet E of ops bldg</td> <td>AN/UMQ-5C</td> <td>"</td> <td>50'</td> </tr> <tr> <td>4.</td> <td>1967</td> <td>15' mast 1600' WNW of ops bldg</td> <td>"</td> <td>"</td> <td>39'</td> </tr> <tr> <td>5.</td> <td>1967</td> <td>" " " " " "</td> <td>"</td> <td>RD-108B</td> <td>39'</td> </tr> <tr> <td>6.</td> <td>1968</td> <td>15' mast 1450' from bldg 848</td> <td>"</td> <td>RD-108B</td> <td>39'</td> </tr> </table>										NUMBER OF LOCATION	DATE OF CHANGE	SURFACE WIND EQUIPMENT INFORMATION				REMARKS ADDITIONAL EQUIPMENT OR REASON FOR CHANGE	LOCATION	TYPE OF TRANSMITTER	TYPE OF RECORDER	HT ABOVE GROUND	1.	1956	Installed roof of ops bldg	UMQ-5A	ID-300/A	Unk	1. Barograph (ML-3) 2. Cloud height set (AN/GMQ-13) 3. Theodolite (ML-247) 4. Transmissometer (AN/GMQ-10C) 5. Auto met sta (GMQ-29A) 6. Radar recorder FAX (GMH-6(V))	2.	Unk	Modified " " " "	UMQ-5C	ID-300	45'	3.	1966	Post 2 feet E of ops bldg	AN/UMQ-5C	"	50'	4.	1967	15' mast 1600' WNW of ops bldg	"	"	39'	5.	1967	" " " " " "	"	RD-108B	39'	6.	1968	15' mast 1450' from bldg 848	"	RD-108B	39'
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NWSD, Federal Building  
Asheville, N.C.

NOCD, Federal Building  
Asheville, N. C.

## PART A

## WEATHER CONDITIONS

This summary is a percentage frequency occurrence of various atmospheric phenomena and obstructions to vision, derived from 3-hourly observations, and is presented in three tables as follows:

1. By month and annual, all hours and years combined.
2. By month and annual, all hours and years combined, by wind direction.
3. By month, all years combined, by standard 3-hour groups.

Occurrences of the various phenomena included in each category on the forms are listed below:

Thunderstorms - All reported occurrences of thunderstorm, tornado, and waterspout.

Rain and/or drizzle - All liquid precipitation, falling to the ground, not freezing.

Freezing rain and/or freezing drizzle (glaze) - Precipitation falling in liquid form, but freezing on contact with an unheated surface.

Snow and/or sleet - Included are snow, sleet, snow pellets (soft hail), snow grains, and ice crystals.

Hail - Occurrences of hail and small hail are included.

Percentage of observations with precipitation - Included in this category are the observations when one or more of the above phenomena occurred. Since more than one type of precipitation may be reported in the same observation, the sums of the individual categories may exceed the total columns.

Fog - Included are fog, ice fog, and ground fog.

Smoke and/or haze - Occurrences of smoke, haze, or combinations of smoke and haze are included.

Blowing snow - Occurrences of blowing snow (also drifting snow when reported from non-WBAN sources.)

Dust and/or sand - Included are blowing dust, blowing sand, and dust.

blowing spray - This item if reported, is not shown in a separate category on this form but is included in the computation Percentage of Observations with Obstructions to Vision.

Percentage of observations with obstructions to vision - Included in this category are the observations when one or more of the above obstructions to vision occurred. Since more than one type of obstruction may be reported in the same observation, the sums of the individual categories may exceed the percentage total columns. Also, although precipitation may reduce visibility, it is not considered an obstruction to vision for purposes of this summary; therefore, the percentage total of obstructions to vision need not reflect the total observations with reduced visibility.

NOTE: The total number of observations may vary among tables within the same month and period. Percentages may not always equal 100.0 due to rounding practices.

## PART A

## ATMOSPHERIC PHENOMENA

This summary is a presentation of the percentage of days with occurrences of various atmospheric phenomena. These data are obtained from all recorded information on the reporting forms and combined into a daily observation.

The descriptions of the phenomena in the Weather Conditions Summary above also apply for the categories summarized in these tabulations. However, it should be noted that in this summary the columns headed "% OF OBS WITH PRECIP" and "% OF OBS WITH OBST TO VISION" show the percentage of days rather than percentage of observations. Since more than one type of precipitation or more than one type of obstruction may occur in the same daily observation, the sum of the values in the individual columns may not equal the total columns.

This presentation is by month with annual totals, and is prepared with all years combined.

NOTE: A day with rain and/or drizzle was not separately reported in WBAN data prior to January 1949. Therefore percentages in this column are restricted to the period January 1949 and later.

A day with dust and/or sand was punched and included in this summary only when visibility was less than 5/8 mile.

Percentage Frequency of Wind Direction vs. Weather Conditions - This tabulation is derived from 3-hourly observations and is presented by month and annual, all hours and years combined. The main body of the Summary consists of weather conditions (horizontally) and wind directions (vertically) to 16 compass points (plus calm). Column totals show the number of observations. "% Total" indicates percentage frequency of occurrences.



## WEATHER CONDITIONS

MONTH

[illegible]

NAVWEASERVCOM



STATION	STATION NAME	YEARS	MOYEN
1	2	3	4
5	6	7	8
9	10	11	12
13	14	15	16
17	18	19	20
21	22	23	24
25	26	27	28
29	30	31	32
33	34	35	36
37	38	39	40
41	42	43	44
45	46	47	48
49	50	51	52
53	54	55	56
57	58	59	60
61	62	63	64
65	66	67	68
69	70	71	72
73	74	75	76
77	78	79	80
81	82	83	84
85	86	87	88
89	90	91	92
93	94	95	96
97	98	99	100

NAVWEASERVCOM

STATION	STATION NAME	YEARS
1	1	1
2	2	2
3	3	3
4	4	4
5	5	5
6	6	6
7	7	7
8	8	8
9	9	9
10	10	10
11	11	11
12	12	12
13	13	13
14	14	14
15	15	15
16	16	16
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94	94	94
95	95	95
96	96	96
97	97	97
98	98	98
99	99	99
100	100	100

NAVWEASERVCOM

## STATION

STATION NAME

YEARS

2000

NAVWEASERVCOM

## WEATHER CONDITIONS

STATION NAME

YEARS

MONTE

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NAVWEASERVCOM

14

MONTH

NAVWEASERVCOM

## 14

STATION

STATION NAME

YEARS

**MONTH**

1. 2. 3. 4. 5. 6.

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## YEARS

STATION

STATION NAME

**YEARS**

MONITOR

NAVWEASERVCOM

## WEATHER CONDITIONS

STATION

STATION NAME

YEARS

MONTH

MONTH	HOURS (L.S.T.)	THUNDER- STORMS	RAIN AND/OR DRIZZLE	FREEZING RAIN &/OR DRIZZLE	SNOW AND/OR SLEET	HAIL	% OF OBS WITH PRECIP.	FOG	SMOKE AND/OR HAZE	BLOWING SNOW	DUST AND/OR SAND	% OF OBS WITH OBST TO VISION	TOTAL NO. OF OBS
	1	1.7	4.7				4.7	7.7				1.7	7
	2	2.2	8.				8.		11.7			11.7	7
	3	1.7	7.7				7.7	1.7				1.7	
	4	1.3	2.7				1.3	1.7				1.7	
	5	1.7	7.				7.		17.			17.	
	6	1.3	7.7				1.3	1.7				1.7	
	7	1.3	7.7				1.3	1.7				1.7	
	8	1.3	7.7				1.3	1.7				1.7	
	9	1.7	7.7				1.7	7.7				7.7	
	10												
	11												
	12												
	13												
	14												
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	16												
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	22												
	23												
	24												
	25												
	26												
	27												
	28												
	29												
	30												
	31												
TOTALS												55.7	



STATION

STATION NAME

YEARS

# MONT

[illegible]

NAVWEASERVCOM

STATION

STATION NAME

YEARS

## MONTA

MONTH	HOURS (L.S.T.)	THUNDER- STORMS	RAIN AND OR DRIZZLE	FREEZING RAIN & OR DRIZZLE	SNOW AND OR SLEET	HAIL	% OF OBS WITH PRECIP.	FOG	SMOKE AND OR HAZE	BLOWING SNOW	DUST AND OR SAND	% OF OBS WITH OBST TO VISION	TOTAL NO. OF OBS
JAN			.				.7	24	7				
FEB		.	.				.	.	.			.	
MAR		.	.				.	.	.			.	
APR			.				.	.	.			.	
MAY			.				.	.	.			.	
JUN			.				.	.	.			.	
JUL			.				.	.	.			.	
AUG			.				.	.	.			.	
SEP			.				.	.	.			.	
OCT			.				.	.	.			.	
NOV			.				.	.	.			.	
DEC			.				.	.	.			.	
TOTALS			.				.	.	.			.	

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## WEATHER CONDITIONS

NORTH

[illegible]

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## 4

STATION

STATION NAME

YEARS

## NOTES

[illegible]

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PERCENTAGE FREQUENCY OF WIND DIRECTION  
VS. WEATHER CONDITIONS

STATION 4431-54321  
STATION NAME  
JANUARY 1973-DECEMBER 1982  
JANUARY

WIND DIRECTION	RAIN	RAIN SHOWERS	DRIZZLE	FREEZING RAIN FREEZING DRIZZLE	SLEET SHOWERS ICE CRYSTALS	SNOW GRAINS PELLETS SHOWERS	HAIL SMALL HAIL	THUNDER	FOG	ICE FOG GROUND FOG	SNOW HAZE	RELATIVE HUMIDITY	WIND SPEED
N	7.7	.7	1.4	1.4	1.4	1.		.3	17.1	3.7	12.7		4.2
NNE	11.4	1.3	3.4	.7	.7	2.			7.7	3.4	16.9		13.7
NE	10.7	1.2	2.4	1.2	2.4	3.5		1.2	22.4	3.5	15.3		51.
ENE	10.7	1.5	3.7					1.5	1.6	4.5	16.7		63.
E	10.7	1.3	1.3						31.3	7.5	18.8		15.
ESE	13.2	4.9							12.2	7.3	4.9		77.7
SE	14.1	3.6							10.7		25.1		40.7
SSE	11.2	1.9							7.8	5.5	15.4		48.1
S	11.2	1.7							16.3	9.2	16.4		52.7
SSW	5.7	3.8	.9					1.7	10.4	5.7	15.1		64.7
SW	4.7	2.6							5.3	6.4	15.9		65.6
WSW	7.7	.5	1.1						7.1	4.4	10.9		73.7
W	.7	1.7	1.7			.4		.4	9.2	6.3	10.0		73.
WNW	7.7	1.6	1.6			.5			13.2	2.1	9.5		74.
NW	.7	.3	1.5						15.2	.7	6.5		77.7
NNW	.7		1.7			.5			11.7	2.7	3.5		76.7
VARIABLE													
CALM	1.1	1.6	1.6	.3					11.1	12.4	11.7		54.7
TOTAL	11.9	48	75	7	7	12		6	357	1.3	312		151.
% TOTAL	1.1	1.9	1.4	.3	.3	.5		.2	14.4	5.7	12.6		55.7

TOTAL NUMBER OF OBSERVATIONS

2,447

NAVWEASERVCOM

TOTAL NUMBER OF OBSERVATIONS: 1000

TOTAL NUMBER OF OBSERVATIONS: 100

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PERCENTAGE FREQUENCY OF WIND DIRECTION  
VS. WEATHER CONDITIONS

[illegible]

TOTAL NUMBER : 10000



PERCENTAGE FREQUENCY OF WIND DIRECTION  
VS. WEATHER CONDITIONS

STATION NEW RIVER, NC

JANUARY 1973-DECEMBER 1992

DAY

WIND DIRECTION	RAIN	RAIN SHOWERS	DRIZZLE	FREEZING RAIN FREEZING DRIZZLE	SLEET SHOWERS ICE CRYSTALS	SNOW GRAINS PELLETS SHOWERS	HAIL SMALL HAIL	THUNDER	FOG	ICE FOG GROUND FOG	SMOKE HAZE	BLOWING FOG	BLIZZARD AND ICE	OTHER
N	2.2	4.3	.6					1.2	17.2	6.1	28.2			4.1
NNE	11.0	1.7	.8						23.1	6.7	22.7			44.1
NE	6.3	2.7	5.4						18.9	5.4	31.1			41.1
ENE	7.7	5.7	1.7					3.3	10.0	6.7	32.0			53.0
E	1.4	4.8	.8					.5	12.0	4.0	22.4			54.4
ESE	2.3	7.7						1.2	5.4	2.3	24.4			62.5
SE	2.2	7.9						1.1	6.7	3.4	23.6			57.6
SSE	3.1	4.2						3.5	7.7	4.2	25.7			59.7
S	1.1	6.3	.3					3.8	8.8	3.5	27.4			56.6
SSW	3.1	2.2						1.3	5.4	5.8	20.9			43.1
SW	1.1	3.5						3.0	11.4	5.7	24.3			57.4
WSW	2.1	2.1						2.0	12.2	7.7	27.0			52.0
W	1.2	3.2						1.9	12.7	8.2	26.6			51.1
WNW	1.1	3.9						2.6	10.5	3.9	30.3			52.5
NW	2.1	2.7						4.0	10.7	2.7	20.0		1.3	65.3
NNW		7.2	2.2					1.1	18.1	4.5	24.7			57.7
VARIABLE														
CALM		1.1						.7	25.7	15.1	14.7			42.7
TOTAL	7	170	11					49	327	159	607		1	1372
% TOTAL	7.7	4.3	.6					2.0	17.2	6.4	24.5		.5	54.5

TOTAL NUMBER OF OBSERVATIONS

2,472

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PERCENTAGE FREQUENCY OF WIND DIRECTION  
VS. WEATHER CONDITIONS

STATION NAME  
P. MILLER, NC

DATE  
JANUARY 1973-DECEMBER 1982

UNIT  
JUNE

WIND DIRECTION	RAIN	RAIN SHOWERS	DRIZZLE	FREEZING RAIN FREEZING DRIZZLE	SLEET SHOWERS ICE CRYSTALS	SNOW GRAINS PELLETS SHOWERS	WALL SMALL WALL	THUNDER	FOG	ICE FOG GROUND FOG	SMOKE HAZE	BLOWING SMOKE	BLowing SMOKE	PERCENT
N	4.4	1.5	.7					.7	9.6	5.0	29.6			51.2
NNE	1.4	2.4	.8					.4	8.9	8.9	27.6			52.1
NE		6.5						1.1	1.3	7.6	25.7			52.1
ENE	4.4	4.8							1.3	3.0	25.7			55.1
E	1.4	2.3						2.3	12.2	3.1	36.6			47.7
ESE	1.4	4.1						1.4	5.4	1.4	48.6			41.7
SE	1.4	3.3						2.2	5.4	2.2	43.5			47.8
SSE	.4	3.5						1.7	6.1	1.7	44.3			47.8
S	.4	5.7	.4					3.1	10.3	.8	39.5			50.4
SSW		1.7	.4					2.0	12.3	6.3	31.5			49.4
SW	.4	2.0	.5					2.4	14.3	5.7	36.8			43.5
WSW		7.4						1.5	14.6	6.6	46.0			59.4
W	1.4	7.4						4.7	12.4	10.3	30.3			47.8
WNW	1.4	4.9						3.3	11.5	11.5	31.1			47.7
NW	1.4	5.2						3.3	11.3	4.9	31.1			42.7
NNW	1.4	5.2	1.6					3.2	11.1	9.5	31.7			44.4
VARIABLE														
CALM		2.0						1.4	14.1	9.4	25.0			45.7
TOTAL	1.4	1.8	.6					5.1	31.7	14.5	27.9			112
TOTAL	1.4	4.5	.3					7.1	13.2	6.0	33.7			46.1

TOTAL NUMBER OF OBSERVATIONS

NAVWEASERVCOM

PERCENTAGE FREQUENCY OF WIND DIRECTION  
VS. WEATHER CONDITIONS

STATION NAME: LAKE MEAD, AZ DATE: JANUARY 1973-7 DECEMBER 1982 MONTH: JULY

WIND DIRECTION	RAIN	RAIN SHOWERS	DRIZZLE	FREEZING RAIN FREEZING DRIZZLE	SLEET SHOWERS ICE CRYSTALS	SNOW GRAINS PELLETS SHOWERS	HAIL SMALL HAIL	THUNDER	FOG	ICE FOG GELING FOG	SMOKE HAIL	BLIZZARD SNOW	OTHER
N	3.0	5.4	0.9					2.7	11.9	3.5	43.2		38.0
NNE		2.7	1.3					1.7	13.3	8.0	47.3		44.0
NE	4.5							3.0	16.7	4.5	39.4		47.0
ENE	1.2	4.9						4.9	11.1	1.2	34.5		51.0
E	5.8	4.1						4.1	5.3	4.1	31.4		53.7
ESE		1.5							1.5	1.5	53.1		45.2
SE	1.0	6.2							4.6	1.5	56.9		35.4
SSE	1.7	5.9						2.8	2.5	1.7	44.9		47.5
S	0	4.2						4.5	6.5	1.3	32.5		54.5
SSW	1.0	3.4						5.2	9.0	4.7	45.1		39.6
SW	1.7	4.6						7.5	15.2	6.3	42.4		34.7
WSW	1.2	4.5	0.4					4.5	10.5	5.7	45.7		33.7
W		1.5						2.9	14.9	5.3	51.4		17.7
WNW	1.7	3.4						1.7	10.2	5.5	52.5		35.6
NW		5.7						6.4	17.6	3.4	37.9		34.5
NNW	0	3.4						5.8	17.0	5.8	40.4		32.7
VARIABLE													
CALM	1.0	3.6	0.2					1.0	15.2	14.1	31.1		45.7
TOTAL	1.0	1.7	4					91	312	141	1034		1072
TOTAL	1.0	4.3	0.2					3.3	12.6	5.7	40.5		41.2

TOTAL NUMBER OF OBSERVATIONS

2,460

NAVWEASERVCOM

PERCENTAGE FREQUENCY OF WIND DIRECTION  
VS. WEATHER CONDITIONS

STATION NAME: STATION NAME DATE: JANUARY 1973-5 DECEMBER 1982

WIND DIRECTION	RAIN	RAIN SHOWERS	DRIZZLE	FREEZING RAIN FREEZING DRIZZLE	SLUSH SHOWERS DRIZZLE	SNOW GRAPE PELLETS SHOWERS	HA DRIZZLE	THUNDER	STILL	CEILING DRIZZLE	SMOKE DRIZZLE	
N	1.0	2.2	.7					1.0	7.4	3.0	36.5	34.0
NNE	5.0	2.3	.7					1.0	1.6	4.1	37.2	37.0
NE	4.4	3.3	1.1					1.1	1.6	9.9	27.5	40.0
ENE	3.7	5.4						1.0	1.4	11.9	32.1	50.0
E	1.0	3.6						.9	4.5	4.5	47.3	47.0
ESE	7.3	4.9						4.6	4.9	4.7	50.9	30.7
SE		5.7						2.7	1.4	2.7	34.4	50.1
SSE	.1	2.4						3.2	3.2	1.1	38.3	30.1
S	1.1	.1						5.1	4.0	2.2	33.6	50.0
SSW	1.0	4.0						3.0	11.4	1.0	34.3	40.0
SW	.0	4.7						2.7	12.6	9.4	34.4	40.0
WSW		1.3						5.0	17.7	12.2	37.6	30.4
W	.0	4.4	.6					4.4	17.8	15.0	40.6	34.4
WNW	3.1	7.4	6.3					3.1	21.0	9.4	37.5	31.7
NW		.1	7.3					6.1	18.2	18.2	42.4	31.2
NNW	1.0	3.0						7.5	22.6	9.4	45.3	24.0
VARIABLE												
CALM								1.0	25.6	14.7	20.6	30.0
TOTAL		113	7					70	357	223	883	1000
% TOTAL	1.0	4.6	.3					7.0	14.4	9.0	36.6	41.0

TOTAL NUMBER OF OBSERVATIONS

NAVWEASERVCOM

PERCENTAGE FREQUENCY OF WIND DIRECTION  
VS. WEATHER CONDITIONS

STATION NAME: FORT MONROE, VA. DATE: JANUARY 1973-DECEMBER 1982 MONTH: SEPTEMBER

WIND DIRECTION	RAIN	RAIN SHOWERS	DRIZZLE	FREEZING RAIN FREEZING DRIZZLE	SLEET SHOWERS ICE CRYSTALS	SNOW GRAINS PELLETS SHOWERS	HAIR SMALL HAIL	THUNDER	FOG	ICE FOG GROUND FOG	SMOKE HAZE	BLOWING SNOW	BLOWING RAIN ICE	TOTAL
N	5.7	1.5	1.1					1.1	27.2	6.3	32.7			71.5
NNE	7.4	2.0	1.0					2.5	22.7	5.4	29.1			61.1
NE	4.5	3.5						.7	18.8	8.3	36.8			51.7
ENE	.1	7.8	.2					2.3	11.6	4.7	38.8			44.7
E	.7	6.6							5.2	5.5	41.8			42.5
ESE	.1	3.4						1.7	7.4	3.4	44.8			43.1
SE	2.7	5.2						1.4	11.0	4.1	26.0			60.3
SSE	2.1	7.4						4.2	3.2	6.3	76.3			57.5
S	1.7	1.4						5.1	7.7	2.5	35.0			52.3
SSW	2.1	3.5						5.2	13.4	7.0	40.0			60.7
SW	.1	4.2						2.5	14.3	12.6	35.3			41.2
WSW	1.1	3.7						1.7	20.5	11.0	44.7			57.0
W		4.3						5.4	11.4	6.4	26.2			46.6
WNW	1.2	2.2							11.1	6.7	44.4			37.8
NW	1.1	5.3						3.5	17.3	7.7	34.5			44.5
NNW	2.1	4.2	5.9					1.7	24.3	8.5	39.7			24.3
VARIABLE														
CALM		1.3						1.3	4.4	14.6	14.7			31.0
TOTAL	5.1	5.1	13					52	411	212	761			1011
% TOTAL	2.3	3.5	5.5					2.2	17.1	8.6	31.7			42.1

TOTAL NUMBER OF OBSERVATIONS 2,400

NAVWEASERVCOM

PERCENTAGE FREQUENCY OF WIND DIRECTION  
VS. WEATHER CONDITIONS

STATION NAME: FORT MONROE, VA. DATE: JANUARY 1973-01 DECEMBER 1982 CYCLES: 10

WIND DIRECTION	RAIN	RAIN SHOWERS	DRIZZLE	FREEZING RAIN FREEZING DRIZZLE	SLEET SHOWERS ICE CRYSTALS	SNOW GRAINS PELLETS SHOWERS	HAIR SMALL HAIL	THUNDER	FOG	ICE FOG GROUND FOG	SMOKE HAZE	ELC N/A
N	7.1	1.1	1.2						1.3	3.1	19.8	11.4
NNE	12.5	1.2	1.2					.4	1.3	4.1	20.0	57.5
NE	2.1	.9							1.9	4.6	24.8	6.6
ENE	2.7								2.5	4.3	28.3	57.1
E		2.5							2.7	3.7	28.9	64.5
ESE	.0										10.4	67.1
SE		5.1	2.6								13.3	62.0
SSE	2.0	4.4						1.1	2.9	2.9	17.6	75.0
S	1.0	3.4							2.4	1.7	22.2	71.1
SSW	1.0	1.0	1.0					1.0	4.4	2.9	32.7	59.7
SW	1.0	.8							1.1	7.6	11.5	64.7
WSW	7.0								7.8	10.1	15.7	44.7
W		.7	.7					.7	11.9	3.3	13.2	7.1
WNW	3.0		1.2						1.3	6.3	10.6	69.9
NW	1.0	2.1							1.5		14.4	68.1
NNW	1.0	2.2	2.7						1.2	6.0	12.7	65.6
VARIABLE												
CALM									21.9	16.0	13.1	49.4
TOTAL	77	33	19					5	324	161	454	1571
% TOTAL	.1	1.3	.9					.2	13.3	6.5	18.4	61.1

TOTAL NUMBER OF OBSERVATIONS

2,471

PERCENTAGE FREQUENCY OF WIND DIRECTION  
VS. WEATHER CONDITIONS

JANUARY 1973-7 CUMULATIVE 1962 N. 40MMH

WIND DIRECTION	RAIN	P-N SHOWERS	DRIZZLE	FREEZING RAIN FREEZING DRIZZLE	SLEET SHOWERS CRYSTALS	SNOW GRAPE PELLETS SHOWERS	HALE STALL HAIL	THUNDER	ICE DRIZZLE	ICE STALL	THUNDER
N	.4	.9	2.6					.4	21.5	1.5	15.5
NNE	.4	1.4	4.9						21.2	4.7	21.3
NE	.4	1.1	2.1						12.1	1.1	27.4
ENE	.1	1.4	1.4						1.5	1.4	17.6
E	.5	2.5	1.1						1.5	5.4	17.2
ESE	.5	1.2						1.5	2.5	3.6	27.3
SE	5.7	5.7							2.5	1.5	18.2
SSE	.5	3.7	1.9						2.5	1.9	20.4
S	.5	5.5	1.7						1.5	1.7	14.2
SSW	.5	2.2	.9					.5	4.3	2.1	13.2
SW	.5	1.5	1.5						2.5	2.5	5.6
WSW	.5	.5						.5	5.7	5.2	8.6
W	.5	1.5	.5						1.5	5.4	6.4
WNW	.5	.2	1.7						.5	3.4	9.5
NW	.5		.9			.5			11.4	5.7	10.5
NNW	.5		5.7						1.5	2.5	10.8
VARIABLE											
CALM									51.4	11.4	11.5
TOTAL		13	72			1		.4	363	114	335
TOTAL	1.5	1.4	1.6			.5		.2	15.1	4.3	14.5

TOTAL NUMBER OF OBSERVATIONS

2,400

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TOTAL NUMBER OF OBSERVATIONS

2,440.



PERCENTAGE FREQUENCY OF WIND DIRECTION  
VS. WEATHER CONDITIONS

STATION	DATE	TIME	WIND DIRECTION	RAIN	RAIN SHOWERS	DRIZZLE	FREEZING RAIN FREEZING DRIZZLE	SLEET SHOWERS ICE CRYSTALS	SNOW GRAINS PELLETS SHOWERS	HAIL SMALL HAIL	THUNDER	ICE CLOUD GROUND FROST	SMOKE HAZE	RELATIVE HUMIDITY	WIND SPEED
			N	.0	1.0	2.0	.0	.0	.0		.0	17.3	4.0	.0	.0
			NNE	7.5	2.0	2.0	.3	.4	.0		.0	1.0	5.0	.0	51.0
			NE	7.0	2.0	1.0	.4	.3	.0		.0	1.0	5.0	.0	51.0
			ENE	1.0	4.5	1.0		.1	.0		1.2	11.0	6.5	.0	54.0
			E	1.0	3.4	.6		.1	.0		.0	10.7	4.1	.1	55.4
			ESE	4.0	3.4	.3					1.1	6.0	3.3		56.0
			SE	4.0	3.2	.0					1.0	6.0	2.3		61.0
			SSE	1.0	4.7	.1			.1		1.0	6.0	2.4		61.0
			S	3.0	5.3	.2					2.6	7.3	2.0		61.0
			SSW	1.3	3.0	.3					2.2	6.1	5.2		61.0
			SW	1.0	2.7	.1					1.4	11.1	6.3		61.0
			WSW	1.0	3.0	.3					1.0	10.0	7.0		61.0
			W	1.0	2.6	.5			.0		1.0	11.0	5.0		62.0
			WNW	.0	2.0	1.0			.0	.1	.6	7.7	4.4	.0	68.0
			NW	1.0	1.0	1.0			.4		1.4	12.2	3.0	.2	68.0
			NNW	.0	1.0	2.0	.1	.1	.3		1.0	14.0	4.2	.1	68.0
			VARIABLE												50.0
			CALM		1.0	.3						91.0	11.1		50.0
			TOTAL	10.3	3.9	2.7	1.0	2.2	4.5	1	35.7	79.3	17.5	13	1673.0
			P. TOTAL	.0	2.9	.3	.1	.1	.2	.0	1.2	13.4	6.0	.3	57.3

TOTAL NUMBER OF OBSERVATIONS

20,214

NAVWEASERVCOM

W. C. Federal Building  
Asheville, N. C.

## PART B PRECIPITATION, SNOWFALL & SNOW DEPTH

This portion of the Uniform Summary presents in two sets of tables, the daily amounts and extreme values of the following:

PRECIPITATION	DERIVED FROM DAILY OBSERVATIONS
SNOWFALL*	DERIVED FROM DAILY OBSERVATIONS
SNOW DEPTH	DERIVED FROM DAILY OBSERVATIONS

1. The first table for each of the above presents the percentage frequency of various daily amounts, by month and annual, all year, combined. The percentage of days with measurable amounts is also computed monthly and annually. Also shown for the precipitation and snowfall tables, are the monthly mean amounts, annual mean amounts (sum of monthly mean amounts), and the extreme monthly amounts (greatest and least). The latter statistics above are not presented for the snow depth summary since they would have limited use and may be misleading.
2. The second set of tables for each of the above presents the extreme daily amounts by individual year and month for the entire period of record available. Also provided are the means and standard deviations for each month and annual (all months). The extremes for a month are not printed nor used in computations if one or more observations are missing.

NOTE: Snow depth was recorded and punched at various hours during the period available from U. S. operated stations. The periods and hours used in the snow depth summary vary by service and period as follows:

Air Force Stations	From beginning of record thru 1945	Snow depth at 0800 LST
	Jan 46-May 57	Snow depth at 1230 GCT
	Jun 57-present	Snow depth at 1200 GCT
U. S. Navy and Weather Bureau Stations	From beginning of record thru Jun 52	Snow depth at 0030 GCT
	Jul 52-May 57	Snow depth at 1230 GCT
	Jun 57-present	Snow depth at 1200 GCT

\* Hail was included in snowfall occurrence in the summary of the day observation prior to Jan 1956, and after Dec 1979.

# DAILY AMOUNTS

PERCENTAGE FREQUENCY OF  
FROM DAILY OBSERVATIONS

STATION

STATION NAME

YEARS

PRECIP	NONE	TRACE	AMOUNTS INCHES												PERCENT OF DAYS WITH MEASUR- ABLE AMTS	TOTAL NO OF OBS	MONTHLY AMOUNTS INCHES		
			0	0.05	0.10	.25	.50	1.00	2.00	3.00	4.00	5.00	6.00	OVER 6.00			MEAN	GREATEST	LEAST
SNOWFALL	NONE	TRACE	0.0	0.1	0.2	0.3	0.4	0.5	0.6	0.7	0.8	0.9	1.0	OVER 1.0					
SNOW DEPTH	NONE	TRACE	0	1	2	3	4	5	6	7	8	9	10	OVER 10					
JAN																			
FEB																			
MAR																			
APR																			
MAY																			
JUN																			
JUL																			
AUG																			
SEP																			
OCT																			
NOV																			
DEC																			
ANNUAL																			

# DAILY AMOUNTS

PERCENTAGE FREQUENCY OF  
(FROM DAILY OBSERVATIONS)

STATION

STATION NAME

YEARS

AMOUNTS (INCHES)														PERCENT OF DAYS WITH MEASUR- ABLE AMTS	TOTAL NO OF OBS	MONTHLY AMOUNTS (INCHES)		
PRECIP	NONE	TRACE	01	02-05	06-10	11-25	26-50	51-100	101-250	251-500	501-1000	1001-2000	OVER 2000			MEAN	GREATEST	LEAST
SNOWFALL	NONE	TRACE	01-04	0.5-1.4	1.5-2.4	2.5-3.4	3.5-4.4	4.5-6.4	6.5-10.4	10.5-13.4	13.5-25.4	25.5-30.4	OVER 30.4					
SNOW DEPTH	NONE	TRACE	1	2	3	4-6	7-12	13-24	25-36	37-48	49-60	61-70	OVER 70					
JAN	.	.	.	1.4	6													
FEB	.	.	.	6														
MAR	.	.																
APR	.																	
MAY	.	.																
JUN	.																	
JUL	.																	
AUG	.																	
SEP	.																	
OCT	.																	
NOV	.	.																
DEC	.	.	.															
ANNUAL	.	.	.	6	6	6												

NAVWEASERVCOM

# DAILY AMOUNTS

PERCENTAGE FREQUENCY OF

(FROM DAILY OBSERVATIONS)

STATION

STATION NAME

YEARS

	AMOUNTS (INCHES)													PERCENT OF DAYS WITH MEASUR- ABLE AMTS	TOTAL NO OF OBS	MONTHLY AMOUNTS INCHES		
	NONE	TRACE	01	02-05	06-10	11-25	26-50	51-100	101-250	251-500	501-1000	1001-2500	2501-5000			MEAN	GREATEST	LEAST
PRECIP	NONE	TRACE	01	02-05	06-10	11-25	26-50	51-100	101-250	251-500	501-1000	1001-2500	2501-5000					
SNOWFALL	NONE	TRACE	01-04	05-4	5-24	25-34	35-44	45-64	65-04	05-14	15-254	255-504	OVER 104					
SNOW DEPTH	NONE	TRACE		2	3	4-6	7-12	13-24	25-36	37-48	49-60	61-20	OVER 20					
JAN																		
FEB																		
MAR																		
APR																		
MAY																		
JUN																		
JUL																		
AUG																		
SEP																		
OCT																		
NOV																		
DEC																		
ANNUAL																		

## EXTREME VALUES

STATION NO.	STATION NAME	YEARS
-------------	--------------	-------

[illegible]

9205

## EXTREME VALUES

514205

STATION NAME

YEARS

[illegible]

SAIOS

## EXTREME VALUES

## STATION

STATION NAME

YEARS

[illegible]

SMOS



## EXTREME VALUES

#### FROM DAILY OBSERVATIONS

STATION

STATION NAME

YEARS

THE TOTAL AMOUNT IN DOLLARS  
PAID BY THE LESSEE FOR THE FULL MONTH

[illegible]

SMOS

## EXTREME VALUES

FUNCTIONAL INFORMATION

YEARS

11-11-50 10:30 AM

SMOS

## EXTREME VALUES

FROM DAILY OBSERVATIONS

STATION

STATION NAME

YEARS

ATTN: 1000 DEPTH IN 7.0 HRS  
/MADE IN LESS THAN FULL MONTHS/

[illegible]

SMOS

4

NAVAL WEATHER SERVICE DETACHMENT  
ASHEVILLE, NORTH CAROLINA

# DAILY EXTREME AMOUNTS

STATION

STATION NAME

CLARS

MONTH

DAY	PRECIPITATION GREATEST			SNOWFALL GREATEST		
	INCHES	MM	DATE	INCHES	MM	DATE
1						
2						
3						
4						
5						
6						
7						
8						
9						
10						
11						
12						
13						
14						
15						
16						
17						
18						
19						
20						
21						
22						
23						
24						
25						
26						
27						
28						
29						
30						
31						
Monthly						

MONTH

DAY	PRECIPITATION GREATEST			SNOWFALL GREATEST		
	INCHES	MM	DATE	INCHES	MM	DATE
1						
2						
3						
4						
5						
6						
7						
8						
9						
10						
11						
12						
13						
14						
15						
16						
17						
18						
19						
20						
21						
22						
23						
24						
25						
26						
27						
28						
29						
30						
31						
Monthly						

\* ALSO ON EARLIER YEARS

T TRACE, AN AMOUNT TOO SMALL TO MEASURE

BLANK UNDER SNOWFALL INDICATES NO SNOWFALL FOR PERIOD OF RECORD

DIRNAVOCEANMET-SMOS

4

NAVAL WEATHER SERVICE DETACHMENT  
ASHEVILLE, NORTH CAROLINA

# DAILY EXTREME AMOUNTS

STATION \_\_\_\_\_ STATION NAME \_\_\_\_\_ YEARS \_\_\_\_\_  
MONTH \_\_\_\_\_

DAY	PRECIPITATION GREATEST			SNOWFALL GREATEST		
	INCHES	MM	DATE	INCHES	MM	DATE
1	.			.		
2	.	4		1.1		
3	.			.		
4	.	12				
5	.	12				
6	.	42				
7	.	22				
8	.	2				
9	.	1				
10	.	1				
11	.	2				
12	.	1				
13	.	1				
14	.					
15	.	3				
16	.	1				
17	.	7				
18	.	2				
19	.	6				
20	.	1				
21	.					
22	.	22				
23	.	1				
24	.	4				
25	.	1				
26	.	1				
27	.	3				
28	.	1				
29	.					
30	.					
31	.					
Monthly						

DAY	PRECIPITATION GREATEST			SNOWFALL GREATEST		
	INCHES	MM	DATE	INCHES	MM	DATE
1	.	7				
2	.10					
3	.	7				
4	.11					
5	.1					
6	.	3				
7	.1	33				
8	.	11				
9	.	22				
10	.	1				
11	.	24				
12	.	1				
13	.1	1				
14	.	14				
15	.1	31				
16	.1	4				
17	.	22				
18	.	5				
19	.1	4				
20	.	17				
21	.	1				
22	.	12				
23	.1	17				
24	.1	21				
25	.	21				
26	.	2				
27	.1	41				
28	.1	2				
29	.					
30	.					
31	.					
Monthly	.	11				

DIRNAVOCEANMET-SMOS

1. ALSO IN EARLIER YEARS  
2. TRACE: AN AMOUNT TOO SMALL TO MEASURE  
BLANK UNDER SNOWFALL INDICATES NO SNOWFALL FOR PERIOD OF RECORD

4

NAVAL WEATHER SERVICE DETACHMENT  
ASHEVILLE, NORTH CAROLINA

## DAILY EXTREME AMOUNTS

STATION NAME

MONTH						
PRECIPITATION GREATEST				SNOWFALL GREATEST		
INCHES	MM	DATE	INCHES	MM	DATE	
1						
2						
3						
4						
5						
6						
7						
8						
9						
10						
11						
12						
13						
14						
15						
16						
17						
18						
19						
20						
21						
22						
23						
24						
25						
26						
27						
28						
29						
30						
31						
Monthly						

MONTH						
PRECIPITATION GREATEST				SNOWFALL GREATEST		
INCHES	MM	DATE	INCHES	MM	DATE	
1						
2						
3						
4						
5						
6						
7						
8						
9						
10						
11						
12						
13						
14						
15						
16						
17						
18						
19						
20						
21						
22						
23						
24						
25						
26						
27						
28						
29						
30						
31						
Monthly						

\* ALSO ON EARLIER YEARS

T TRACE, AN AMOUNT TOO SMALL TO MEASURE

BLANK UNDER SNOWFALL INDICATES NO SNOWFALL FOR PERIOD OF RECORD

DIRNAVOCEANMET-SMOS

NAVY AIR FORCE SERVICE DETACHMENT  
 WASHINGTON, NORTH CAROLINA

# DAILY EXTREME AMOUNTS

STATION NAME

YEARS

MONTH

MONTH

	PRECIPITATION GREATEST			SNOWFALL GREATEST		
	MM	DATE	INCHES	MM	DATE	
1						
2						
3						
4						
5						
6						
7						
8						
9						
10						
11						
12						
13						
14						
15						
16						
17						
18						
19						
20						
21						
22						
23						
24						
25						
26						
27						
28						
29						
30						
31						
Monthly						

DAY	PRECIPITATION GREATEST			SNOWFALL GREATEST		
	INCHES	MM	DATE	INCHES	MM	DATE
1						
2						
3						
4						
5						
6						
7						
8						
9						
10						
11						
12						
13						
14						
15						
16						
17						
18						
19						
20						
21						
22						
23						
24						
25						
26						
27						
28						
29						
30						
31						
Monthly						

\* ALSO ON EARLIER YEARS  
 T TRACE, AN AMOUNT TOO SMALL TO MEASURE  
 BLANK UNDER SNOWFALL INDICATES NO SNOWFALL FOR PERIOD OF RECORD

DIRNAVOCEANMET-SMOS

NAVAL WEATHER SERVICE DETACHMENT  
ASHEVILLE NORTH CAROLINA

## DAILY EXTREME AMOUNTS

STATION

STATION NAME

YEARS

DAY	PRECIPITATION GREATEST			SNOWFALL GREATEST		
	INCHES	MM	DATE	INCHES	MM	DATE
1						
2						
3						
4						
5						
6						
7						
8						
9						
10						
11						
12						
13						
14						
15						
16						
17						
18						
19						
20						
21						
22						
23						
24						
25						
26						
27						
28						
29						
30						
31						
Month						

DAY	PRECIPITATION GREATEST			SNOWFALL GREATEST		
	INCHES	MM	DATE	INCHES	MM	DATE
1						
2						
3						
4						
5						
6						
7						
8						
9						
10						
11						
12						
13						
14						
15						
16						
17						
18						
19						
20						
21						
22						
23						
24						
25						
26						
27						
28						
29						
30						
31						
Monthly						

\* ALSO ON EARLIER YEARS

1 TRACE, AN AMOUNT TOO SMALL TO MEASURE

BLANK UNDER SNOWFALL INDICATES NO SNOWFALL FOR PERIOD OF RECORD

DIRNAVOCEANMET-SMOS



NAVAL WEATHER SERVICE DETACHMENT  
ASHEVILLE, NORTH CAROLINA

## DAILY EXTREME AMOUNTS

STATION NAME						
MONTH						
DAY	PRECIPITATION GREATEST			SNOWFALL GREATEST		
	INCHES	MM	DATE	INCHES	MM	DATE
1						
2						
3						
4						
5						
6						
7						
8						
9						
10						
11						
12						
13						
14						
15						
16						
17						
18						
19						
20						
21						
22						
23						
24						
25						
26						
27						
28						
29						
30						
31						
Monthly						

STATION NAME						
MONTH						
DAY	PRECIPITATION GREATEST			SNOWFALL GREATEST		
	INCHES	MM	DATE	INCHES	MM	DATE
1						
2						
3						
4						
5						
6						
7						
8						
9						
10						
11						
12						
13						
14						
15						
16						
17						
18						
19						
20						
21						
22						
23						
24						
25						
26						
27						
28						
29						
30						
31						
Monthly						

\* ALSO ON EARLIER YEARS

T TRACE, AN AMOUNT TOO SMALL TO MEASURE

BLANK UNDER SNOWFALL INDICATES NO SNOWFALL FOR PERIOD OF RECORD

DIRNAVOCEANMET-SMOS

A. 1000, 1000.

## PART C

## SURFACE WINDS

Presented in this part are various tabulations of surface winds as follows:

1. Extreme Values - Peak Gusts: Derived from daily observations and presented by individual year and month for the entire period of record available. Speeds are presented in knots, while directions are given in 16 compass points from the beginning of record through 1963, and in terms of degree notation in January, 1964. When 90% or more of the daily observations of peak gust wind data are available for a month, the extreme is selected and printed. These values are then used to compute means and standard deviations for the entire period. Every month of a year must have valid observations present before the ALL MONTH value is selected for that year. Means and standard deviations are computed when four or more values are present for any column. A supplementary list of peak gusts by year-month with 90% observation reported is also provided.

NOTE: According to Circular N specifications, "peak gust data are recorded only at stations with continuous instantaneous wind-speed recorders."

2. Bivariate percentage frequency tabulations: Derived from hourly observations, these tabulations are a percentage frequency of wind directions to 16 compass points and calm by wind speeds (knots) in increments of Beaufort classifications. Percentages are shown by both direction and speed, and in addition the mean wind speed for each direction.

A separate category is provided on the form for variable winds, which are reported in some data sources. In these data where light and variable winds are reported with no directions but with speeds given, the speeds will be summarized in the appropriate groups opposite the column headed VARIABLE.

- a. Three tables are prepared for all surface winds included, and for all years combined as follows:

- (1) Annual - all hours combined
- (2) By month - all hours combined
- (3) By month - by standard 3-hour groups

- b. A separate annual table is also presented for surface winds meeting the following ceiling and visibility conditions: INSTRUMENT CLASS: Ceiling 200 through 1400 feet inclusive with visibility equal to or greater than 1/2 mile, and/or visibility 1/2 through 1-1/2 miles inclusive with ceiling equal to or greater than 200 feet.

## EXTREME VALUES

STATION NAME

Y. I. AR.

MONTH

JAN FEB MAR APR MAY JUN JUL AUG SEP OCT NOV DEC

MEAN

1961

SACOS

## EXTREME VALUES

STATION	STATION NAME	STATION NO.	STATION TYPE	STATION CLASS	STATION STATUS	STATION DATE	STATION TIME	STATION YEAR
---------	--------------	-------------	--------------	---------------	----------------	--------------	--------------	--------------

[illegible]

51.05.

NO. 1, 1950-1959  
 1960-1969  
 1970-1979

PERCENTAGE FREQUENCY OF WIND  
 DIRECTION AND SPEED  
 (FROM HOURLY OBSERVATIONS)

SURFACE WINDS

STATION \_\_\_\_\_ STATION NAME \_\_\_\_\_ YEARS \_\_\_\_\_ MONTH \_\_\_\_\_  
 CLASS \_\_\_\_\_  
 LOCATION \_\_\_\_\_

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N													
NNE													
NE													
ENE													
E													
ESE													
SE													
SSE													
S													
SSW													
SW													
WSW													
W													
WNW													
NW													
NNW													
VARBL													
CALM													

TOTAL NUMBER OF OBSERVATIONS \_\_\_\_\_

SMOS

NAVAL WEATHER SERVICE  
DETACHMENT  
ACHILLE, NC

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

SURFACE WINDS

STATION \_\_\_\_\_ STATION NAME \_\_\_\_\_ YEARS \_\_\_\_\_ MONTH \_\_\_\_\_  
CLASS \_\_\_\_\_ HOURS \_\_\_\_\_  
CONDITION \_\_\_\_\_

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N													
NNE													
NE													
ENE													
E													
ESE													
SE													
SSE													
S													
SSW													
SW													
WSW													
W													
WNW													
NW													
NNW													
VARBL													
CALM													

TOTAL NUMBER OF OBSERVATIONS \_\_\_\_\_

SMOS

NAVAL WEATHER SERVICE  
DETACHMENT  
ASHEVILLE, NC

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

SURFACE WINDS

STATION \_\_\_\_\_ STATION NAME \_\_\_\_\_ YEARS \_\_\_\_\_ MONTH \_\_\_\_\_  
CLASS \_\_\_\_\_  
CONDITION \_\_\_\_\_  
HOURS \_\_\_\_\_

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N													
NNE													
NE													
ENE													
E													
ESE													
SE													
SSE													
S													
SSW													
SW													
WSW													
W													
WNW													
NW													
NNW													
VARBL													
CALM													

TOTAL NUMBER OF OBSERVATIONS \_\_\_\_\_

SMOS

NAVAL WEATHER SERVICE  
DETACHMENT  
ASHEVILLE, NC

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

SURFACE WINDS

STATION \_\_\_\_\_ STATION NAME \_\_\_\_\_ YEARS \_\_\_\_\_ NORTH \_\_\_\_\_  
CLASS \_\_\_\_\_  
CONDITION \_\_\_\_\_

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N												17.7	2.2
NNE												2.2	7.7
NE												2.2	2.2
ENE												4.4	2.2
E												2.2	2.2
ESE												1.1	2.2
SE												1.1	2.2
SSE												1.1	2.2
S												1.1	2.2
SSW												2.2	2.2
SW												4.4	2.2
WSW												5.5	2.2
W												2.2	2.2
WNW												2.2	2.2
NW												2.2	2.2
NNW												4.4	2.2
VARBL													
CALM													

TOTAL NUMBER OF OBSERVATIONS \_\_\_\_\_

SMOS



NAVAL WEATHER SERVICE  
DETACHMENT  
ASHEVILLE, NC

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

SURFACE WINDS

STATION \_\_\_\_\_ STATION NAME \_\_\_\_\_ YEARS \_\_\_\_\_ MONTH \_\_\_\_\_  
CLASS \_\_\_\_\_  
CONDITION \_\_\_\_\_  
HOURS \_\_\_\_\_

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N													
NNE													
NE													
ENE													
E													
ESE													
SE													
SSE													
S													
SSW													
SW													
WSW													
W													
WNW													
NW													
NNW													
VARBL													
CALM													

TOTAL NUMBER OF OBSERVATIONS \_\_\_\_\_

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

STATION	STATION NAME	YEARS	MONTH
	ALL INFORMATION		1
	CLASS		HOUSE - L S Y
	CONDITION		

[illegible]

TOTAL NUMBER OF OBSERVATIONS 111

**SMAOS**

NAVAL WEATHER SERVICE  
DETACHMENT  
ASHEVILLE, NC

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

SURFACE WINDS

STATION ASHEVILLE, NC STATION NAME 77-60 YEARS 11 MONTH 11

CLASS ALL WEATHER HOUSE 11.5

CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
NNE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
NE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
ENE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
E	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
ESE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
SE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
SSE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
S	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
SSW	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
SW	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
WSW	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
W	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
WNW	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
NW	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
NNW	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
VARBL	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
CALM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

TOTAL NUMBER OF OBSERVATIONS 110

SMOS

NAVAL WEATHER SERVICE  
DETACHMENT  
ASHEVILLE, NC

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

SURFACE WINDS

STATION \_\_\_\_\_ STATION NAME \_\_\_\_\_ YEARS \_\_\_\_\_ NORTH \_\_\_\_\_  
 CLASS \_\_\_\_\_  
 CONDITION \_\_\_\_\_  
 HOURS - L - S - T \_\_\_\_\_

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	2.0	2.0	1.0									4.0	4.0
NNE	2.0	1.0	1.0									3.0	4.0
NE	1.0	2.0	1.0									4.0	4.0
ENE	1.0	1.0	1.0									3.0	4.0
E	1.0	1.0										2.0	4.0
ESE		1.0	1.0									2.0	4.0
SE		1.0	1.0									2.0	4.0
SSE	1.0	1.0	1.0	1.0	1.0							5.0	4.0
S		1.0	1.0	1.0	1.0							4.0	4.0
SSW		1.0	1.0	1.0	1.0							4.0	4.0
SW		1.0	1.0	1.0	1.0							4.0	4.0
WSW		1.0	1.0	1.0	1.0							4.0	4.0
W	1.0	1.0	1.0	1.0	1.0							5.0	4.0
WNW		1.0	1.0	1.0	1.0							4.0	4.0
NW		1.0	1.0	1.0	1.0							4.0	4.0
NNW	1.0	1.0	1.0	1.0	1.0							5.0	4.0
VARBL													
CALM												1.0	
	4.0	4.0	4.0	4.0	4.0							1.0	4.0

TOTAL NUMBER OF OBSERVATIONS \_\_\_\_\_

SMO:

NAVAL WEATHER SERVICE  
DETACHMENT  
ASHEVILLE, NC

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

SURFACE WINDS

STATION \_\_\_\_\_ STATION NAME \_\_\_\_\_ YEARS \_\_\_\_\_  
 ALL WEATHER CLASS  
 COORDINATE \_\_\_\_\_  
 ALL HOURS 11:51

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
NNE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
NE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
ENE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
E	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
ESE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
SE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
SSE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
S	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
SSW	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
SW	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
WSW	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
W	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
WNW	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
NW	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
NNW	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
VARBL													
CALM													
	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

TOTAL NUMBER OF OBSERVATIONS 2400

SMOS

NAVAL WEATHER SERVICE  
DETACHMENT  
WHEWEE, NC

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

SURFACE WINDS

STATION \_\_\_\_\_ STATION NAME \_\_\_\_\_ YEARS \_\_\_\_\_ MONTH \_\_\_\_\_

CLASS \_\_\_\_\_

CONDITION \_\_\_\_\_

HOURE \_\_\_\_\_

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	MEAN WIND SPEED
N												
NNE												
NE												
ENE												
E												
ESE												
SE												
SSE												
S												
SSW												
SW												
WSW												
W												
WNW												
NW												
NNW												
VARBL												
CALM												

TOTAL NUMBER OF OBSERVATIONS \_\_\_\_\_

SMOS

# SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

STATION

STATION NAME

YEARS

MONTH

CLASS

HOURS

CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N													
NNE													
NE													
ENE													
E													
ESE													
SE													
SSE													
S													
SSW													
SW													
WSW													
W													
WNW													
NW													
NNW													
VARBL													
CALM													

TOTAL NUMBER OF OBSERVATIONS

SMOS

Form No. 1-62 (Rev. 1-64)  
 PREPARED BY THE  
 U.S. NAVY

# PERCENTAGE FREQUENCY OF WIND DIRECTION AND SPEED (FROM HOURLY OBSERVATIONS)

## SURFACE WINDS

STATION \_\_\_\_\_ STATION NAME \_\_\_\_\_ YEARS \_\_\_\_\_ MONTH \_\_\_\_\_

CLASS \_\_\_\_\_ HOUR \_\_\_\_\_

CONDITION \_\_\_\_\_

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N													
NNE													
NE													
ENE													
E													
ESE													
SE													
SSE													
S													
SSW													
SW													
WSW													
W													
WNW													
NW													
NNW													
VARBL													
CALM													

TOTAL NUMBER OF OBSERVATIONS \_\_\_\_\_

SMOS



Form No. 1-61 (Rev. 10-1-60)  
 U.S. GOVERNMENT PRINTING OFFICE  
 WASHINGTON, D.C. 20540

# PERCENTAGE FREQUENCY OF WIND DIRECTION AND SPEED (FROM HOURLY OBSERVATIONS)

## SURFACE WINDS

STATION \_\_\_\_\_ STATION NAME \_\_\_\_\_ YEARS \_\_\_\_\_ MONTH \_\_\_\_\_  
 CLASS \_\_\_\_\_ NO. OF \_\_\_\_\_  
 CONDITION \_\_\_\_\_

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	MEAN WIND SPEED
N												
NNE												
NE												
ENE												
E												
ESE												
SE												
SSE												
S												
SSW												
SW												
WSW												
W												
WNW												
NW												
NNW												
VARBL												
CALM												

TOTAL NUMBER OF OBSERVATIONS \_\_\_\_\_

# SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

STATION \_\_\_\_\_ STATION NAME \_\_\_\_\_ YEARS \_\_\_\_\_

CLASS \_\_\_\_\_

CONDITION \_\_\_\_\_

SPEED (KNTS) DIR	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	
N												
NNE												
NE												
ENE												
E												
ESE												
SE												
SSE												
S												
SSW												
SW												
WSW												
W												
WNW												
NW												
NNW												
VARBL												
CALM												

TOTAL NUMBER OF OBSERVATIONS

SMOS

<sup>a</sup>  $\chi^2$  = 1.02,  $df$  = 1,  $p$  = .315.   
<sup>b</sup>  $\chi^2$  = 1.02,  $df$  = 1,  $p$  = .315.   
<sup>c</sup>  $\chi^2$  = 1.02,  $df$  = 1,  $p$  = .315.

## STATION

STATION NAME

YEARS

UNIT 1

**CLASS**

MDL 01 5 7

**CONDITION**

[illegible]

TOTAL NUMBER OF OBSERVATIONS

**SMOS**

NEW AND REVISOR'S PREVIOUS  
 EDITIONS  
 WITH CORRECTIONS

# PERCENTAGE FREQUENCY OF WIND DIRECTION AND SPEED (FROM HOURLY OBSERVATIONS)

## SURFACE WINDS

STATION	STATION NAME	YEARS	MONTH
		CLASS	HOURS
		CONDITION	

SPEED (KNTS) DIR	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N													
NNE													
NE													
ENE													
E													
ESE													
SE													
SSE													
S													
SSW													
SW													
WSW													
W													
WNW													
NW													
NNW													
VARBL													
CALM													

TOTAL NUMBER OF OBSERVATIONS

SMOS

NATIONAL WEATHER SERVICE  
 (U.S. DEPARTMENT OF COMMERCE)  
 WASHINGTON, D.C.

PERCENTAGE FREQUENCY OF WIND  
 DIRECTION AND SPEED  
 (FROM HOURLY OBSERVATIONS)

SURFACE WINDS

STATION \_\_\_\_\_ STATION NAME \_\_\_\_\_ YEARS \_\_\_\_\_ MONTH \_\_\_\_\_  
 CLASS \_\_\_\_\_ HOURS \_\_\_\_\_  
 CONDITION \_\_\_\_\_

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	MEAN WIND SPEED
N												
NNE												
NE												
ENE												
E												
ESE												
SE												
SSE												
S												
SSW												
SW												
WSW												
W												
WNW												
NW												
NNW												
VARBL												
CALM												

TOTAL NUMBER OF OBSERVATIONS \_\_\_\_\_

NAVAL WEATHER SERVICE  
ESTABLISHMENT  
ATKINSVILLE, NC

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

SURFACE WINDS

STATION	STATION NAME	YEARS	MONTH
	CLASS		HOURLY
	CONDITION		

SPEED (KNTS), DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	MEAN WIND SPEED
N												
NNE												
NE												
ENE												
E												
ESE												
SE												
SSE												
S												
SSW												
SW												
WSW												
W												
WNW												
NW												
NNW												
VARBL												
CALM												

TOTAL NUMBER OF OBSERVATIONS

SMOS

NAVAL WEATHER SERVICE  
DETACHMENT  
ASHEVILLE, NC

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

SURFACE WINDS

STATION \_\_\_\_\_ STATION NAME \_\_\_\_\_ YEARS \_\_\_\_\_

CLASS \_\_\_\_\_ MONTH \_\_\_\_\_

CONDITION \_\_\_\_\_ HOURS \_\_\_\_\_

SPEED (KNTS) Dir.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	MEAN WIND SPEED
N												
NNE												
NE												
ENE												
E												
ESE												
SE												
SSE												
S												
SSW												
SW												
WSW												
W												
WNW												
NW												
NNW												
VARBL												
CALM												

TOTAL NUMBER OF OBSERVATIONS \_\_\_\_\_

SMOS

NAVAL WEATHER SERVICE  
DETACHMENT  
ASHEVILLE, NC

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

SURFACE WINDS

STATION	STATION NAME	YEARS	MONTH
	CLASS		NUMBER OF DAYS
	CONDITION		

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N												5.7	4.9
NNF												2.2	2.2
NE												0.1	4.5
ENE												4.8	4.7
E												2.1	1.4
ESE													4.2
SE												2.1	7.1
SSE												0.3	5.7
S												5.1	7.1
SSW												2.1	1.2
SW												1.4	4.9
WSW												2.1	1.2
W												1.1	5.9
WNW												1.1	2.5
NW												1.1	7.2
NNW												1.1	5.1
VARBL													
CALM												0.8	

TOTAL NUMBER OF OBSERVATIONS 210

SMOS



NAVAL WEATHER SERVICE  
DETACHMENT  
ASHEVILLE, NC

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

SURFACE WINDS

STATION \_\_\_\_\_ STATION NAME \_\_\_\_\_ YEARS \_\_\_\_\_ NORTH \_\_\_\_\_  
 CLASS \_\_\_\_\_  
 CONDITION \_\_\_\_\_  
 HOURS \_\_\_\_\_

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N													
NNE													
NE													
ENE													
E													
ESE													
SE													
SSE													
S													
SSW													
SW													
WSW													
W													
WNW													
NW													
NNW													
VARBL													
CALM													

TOTAL NUMBER OF OBSERVATIONS \_\_\_\_\_

SMOS

NAVAL WEATHER SERVICE  
DETACHMENT  
ASHEVILLE, NC

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

SURFACE WINDS

STATION 75-01 STATION NAME ALL WEATHER YEAR 1961 MONTH 1  
CLASS 1  
CONDITION 1

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	1.0	2.0	1.0	1.0								11.0	7.4
NNE	1.0	4.0	1.0	1.0								6.0	5.4
NE	1.0	1.0	1.0	1.0								5.0	5.7
ENE	1.0	1.0	1.0									6.0	4.5
E	1.0	1.0	1.0									4.0	4.5
ESE	1.0	1.0	1.0									4.0	5.1
SE			1.0									2.0	2.7
SSE			1.0	1.0								2.0	11.7
S			1.0	1.0								6.0	7.4
SSW			1.0	1.0	1.0							5.0	2.4
SW		1.0	1.0	1.0	1.0							4.0	5.6
WSW		1.0	1.0	1.0								6.0	2.5
W		1.0	1.0	1.0	1.0							12.0	3.5
WNW			1.0	1.0	1.0							1.0	2.9
NW			1.0	1.0								5.0	4.3
NNW		1.0	1.0	1.0								7.0	5.7
VARBL													
CALM												4.5	
	12.0	26.0	35.0	17.0	1.0							100.0	7.4

TOTAL NUMBER OF OBSERVATIONS 579

SMOS

NAVAL WEATHER SERVICE  
DETACHMENT  
ASHEVILLE, NC

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

SURFACE WINDS

STATION \_\_\_\_\_ STATION NAME \_\_\_\_\_ YEARS \_\_\_\_\_

CLASS \_\_\_\_\_ MONTH \_\_\_\_\_

CONDITION \_\_\_\_\_ HOURS \_\_\_\_\_

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N												7.2	2.4
NNE												6.2	2.2
NE												5.2	2.2
ENE												4.2	2.2
E												3.2	2.2
ESE												2.2	2.2
SE												1.2	2.2
SSE												0.2	2.2
S												0.2	2.2
SSW												0.2	2.2
SW												0.2	2.2
WSW												0.2	2.2
W												0.2	2.2
WNW												0.2	2.2
NW												0.2	2.2
NNW												0.2	2.2
VARBL												0.2	2.2
CALM												0.2	2.2

TOTAL NUMBER OF OBSERVATIONS \_\_\_\_\_

SMOS

NAVAL WEATHER SERVICE  
DETACHMENT  
ASHEVILLE, NC

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

SURFACE WINDS

STATION	STATION NAME	YEARS	MONTH
	CLASS		HOURS - DAY
	CONDITION		

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N													
NNE													
NE													
ENE													
E													
ESE													
SE													
SSE													
S													
SSW													
SW													
WSW													
W													
WNW													
NW													
NNW													
VARBL													
CALM													

TOTAL NUMBER OF OBSERVATIONS

SMOS

NAVY WEATHER SERVICE  
 WASHINGTON, D.C.  
 FORM NO. 1-57

# PERCENTAGE FREQUENCY OF WIND DIRECTION AND SPEED (FROM HOURLY OBSERVATIONS)

## SURFACE WINDS

STATION \_\_\_\_\_ STATION NAME \_\_\_\_\_ YEARS \_\_\_\_\_ MONTH \_\_\_\_\_  
 CLASS \_\_\_\_\_  
 CONDITION \_\_\_\_\_  
 HOURS \_\_\_\_\_

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N													
NNE													
NE													
ENE													
E													
ESE													
SE													
SSE													
S													
SSW													
SW													
WSW													
W													
WNW													
NW													
NNW													
VARBL													
CALM													

TOTAL NUMBER OF OBSERVATIONS \_\_\_\_\_

NAVAL WEATHER SERVICE  
 1. FORM 10-1  
 WASHINGTON, D.C.

PERCENTAGE FREQUENCY OF WIND  
 DIRECTION AND SPEED  
 (FROM HOURLY OBSERVATIONS)

SURFACE WINDS

STATION \_\_\_\_\_ STATION NAME \_\_\_\_\_ YEARS \_\_\_\_\_ MONTH \_\_\_\_\_  
 CLASS \_\_\_\_\_ HOURS \_\_\_\_\_  
 CONDITION \_\_\_\_\_

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N													
NNE													
NE													
ENE													
E													
ESE													
SE													
SSE													
S													
SSW													
SW													
WSW													
W													
WNW													
NW													
NNW													
VARBL													
CALM													

TOTAL NUMBER OF OBSERVATIONS \_\_\_\_\_

# SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

STATION \_\_\_\_\_ STATION NAME \_\_\_\_\_ YEARS \_\_\_\_\_ MONTH \_\_\_\_\_  
CLASS \_\_\_\_\_ HOURS \_\_\_\_\_  
CONDITION \_\_\_\_\_

SPEED (KNTS) DIR	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N													
NNE													
NE													
ENE													
E													
ESE													
SE													
SSE													
S													
SSW													
SW													
WSW													
W													
WNW													
NW													
NNW													
VARBL													
CALM													

TOTAL NUMBER OF OBSERVATIONS

SMOS

NAVAL WEATHER SERVICE  
 WASHINGTON, D. C.  
 FORM NO. 1-60

PERCENTAGE FREQUENCY OF WIND  
 DIRECTION AND SPEED  
 (FROM HOURLY OBSERVATIONS)

SURFACE WINDS

STATION \_\_\_\_\_ STATION NAME \_\_\_\_\_ YEARS \_\_\_\_\_  
 CLASS \_\_\_\_\_  
 LOCATION \_\_\_\_\_

SPEED (KNTS) DIR.	1-3	4-6	7-10	11-16	17-21	22-27	28-33	34-40	41-47	48-55	≥56	%	MEAN WIND SPEED
N													
NNE													
NE													
ENE													
E													
ESE													
SE													
SSE													
S													
SSW													
SW													
WSW													
W													
WNW													
NW													
NNW													
VARBL													
CALM													

TOTAL NUMBER OF OBSERVATIONS

SMOS



# SURFACE

## PERCENTAGE FREQUENCY OF WIND DIRECTION AND SPEED (FROM HOURLY OBSERVATIONS)

STATION

STATION NAME

YEARS

CLASS

CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56
N											
NNE											
NE											
ENE											
E											
ESE											
SE											
SSE											
S											
SSW											
SW											
WSW											
W											
WNW											
NW											
NNW											
VARBL											
CALM											

TOTAL NUMBER OF OBSERVATIONS

SMCS

NAVAL WEATHER SERVICE  
 ESTABLISHMENT  
 WASHINGTON, D.C.

PERCENTAGE FREQUENCY OF WIND  
 DIRECTION AND SPEED  
 (FROM HOURLY OBSERVATIONS)

SURFACE WINDS

STATION \_\_\_\_\_ STATION NAME \_\_\_\_\_ YEARS \_\_\_\_\_ MONTH \_\_\_\_\_  
 CLASS \_\_\_\_\_ HOURS \_\_\_\_\_  
 CONDITION \_\_\_\_\_

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N													
NNE													
NE													
ENE													
E													
ESE													
SE													
SSE													
S													
SSW													
SW													
WSW													
W													
WNW													
NW													
NNW													
VARBL													
CALM													

TOTAL NUMBER OF OBSERVATIONS \_\_\_\_\_

SMOS

NATIONAL WEATHER SERVICE  
 WASHINGTON, D.C.  
 FORM NO. 1-60

PERCENTAGE FREQUENCY OF WIND  
 DIRECTION AND SPEED  
 (FROM HOURLY OBSERVATIONS)

SURFACE WINDS

STATION \_\_\_\_\_ STATION NAME \_\_\_\_\_ YEARS \_\_\_\_\_ MONTH \_\_\_\_\_  
 CLASS \_\_\_\_\_ HOURS \_\_\_\_\_  
 CONDITION \_\_\_\_\_

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N													
NNE													
NE													
ENE													
E													
ESE													
SE													
SSE													
S													
SSW													
SW													
WSW													
W													
WNW													
NW													
NNW													
VARBL													
CALM													

TOTAL NUMBER OF OBSERVATIONS \_\_\_\_\_

NAVAL WEATHER SERVICE  
ATTACHMENT  
ASHEVILLE, NC

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

SURFACE WINDS

STATION	STATION NAME	YEARS	6.7 MONTH
CLASS			1.2 HOURS PER DAY
CONDITION			

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N													
NNE													
NE													
ENE													
E													
ESE													
SE													
SSE													
S													
SSW													
SW													
WSW													
W													
WNW													
NW													
NNW													
VARBL													
CALM													

TOTAL NUMBER OF OBSERVATIONS

SMOS

NAVY WEATHER SERVICE  
ATTACHMENT  
ACT 11-1-10

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

SURFACE WINDS

STATION \_\_\_\_\_ STATION NAME \_\_\_\_\_ YEARS \_\_\_\_\_  
 CLASS \_\_\_\_\_  
 CONDITION \_\_\_\_\_

SPEED (KNTS) DIP.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	MEAN WIND SPEED
N												
NNE												
NE												
ENE												
E												
ESE												
SE												
SSE												
S												
SSW												
SW												
WSW												
W												
WNW												
NW												
NNW												
VARBL												
CALM												

TOTAL NUMBER OF OBSERVATIONS \_\_\_\_\_

SMOS

NAVAL WEATHER SERVICE  
DETACHMENT  
ASHEVILLE, NC

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

SURFACE WINDS

STATION	STATION NAME	YEARS	4100 NORTH
	CLASS		10 HOURS 11 12 1
	CONDITION		

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N													
NNE													
NE													
ENE													
E													
ESE													
SE													
SSE													
S													
SSW													
SW													
WSW													
W													
WNW													
NW													
NNW													
VARBL													
CALM													

TOTAL NUMBER OF OBSERVATIONS

SMOS

NAVAL WEATHER SERVICE  
DETACHMENT  
ACHEVILLE, NC

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

SURFACE WINDS

STATION                      STATION NAME                      YEARS                      MONTH                     

CLASS                     

CONDITION                     

HOURS                     

SPEED (KNTS) DIR	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	MEAN WIND SPEED
N												
NNE												
NE												
ENE												
E												
ESE												
SE												
SSE												
S												
SSW												
SW												
WSW												
W												
WNW												
NW												
NNW												
VARBL												
CALM												

TOTAL NUMBER OF OBSERVATIONS                     

SMOS

NATIONAL WEATHER SERVICE  
DETACHMENT  
WHEATVILLE, NC

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

SURFACE WINDS

STATION	STATION NAME	YEARS	MONTH
	CLASS		NOVEMBER
	CONDITION		

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N													
NNE													
NE													
ENE													
E													
ESE													
SE													
SSE													
S													
SSW													
SW													
WSW													
W													
WNW													
NW													
NNW													
VARBL													
CALM													

TOTAL NUMBER OF OBSERVATIONS

SMOS



NAVY AND AIR FORCE JOINT  
STATION REPORT  
FORM 1-60

# PERCENTAGE FREQUENCY OF WIND DIRECTION AND SPEED (FROM HOURLY OBSERVATIONS)

## SURFACE WINDS

STATION	STATION NAME	YEARS	MONTH
	CLASS		HOURLY
	CONDITION		

SPEED (KNTS) DIR	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N													
NNE													
NE													
ENE													
E													
ESE													
SE													
SSE													
S													
SSW													
SW													
WSW													
W													
WNW													
NW													
NNW													
VARBL													
CALM													

TOTAL NUMBER OF OBSERVATIONS

SMOS

NAVAL WEATHER SERVICE  
DETACHMENT  
ASHEVILLE, NC

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

SURFACE WINDS

STATION	STATION NAME	YEARS	MOY MONTH
	CLASS		HOURE HOURS
	CONDITION		

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N													
NNE													
NE													
ENE													
E													
ESE													
SE													
SSE													
S													
SSW													
SW													
WSW													
W													
WNW													
NW													
NNW													
VARBL													
CALM													

TOTAL NUMBER OF OBSERVATIONS

SMOS

NAVAL WEATHER SERVICE  
 ESTABLISHMENT  
 ASHKEWILLE, NC

PERCENTAGE FREQUENCY OF WIND  
 DIRECTION AND SPEED  
 (FROM HOURLY OBSERVATIONS)

SURFACE WINDS

STATION \_\_\_\_\_ STATION NAME \_\_\_\_\_ YEARS \_\_\_\_\_ MONTH \_\_\_\_\_  
 CLASS \_\_\_\_\_ HOURS \_\_\_\_\_  
 CONDITION \_\_\_\_\_

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N													
NNE													
NE													
ENE													
E													
ESE													
SE													
SSE													
S													
SSW													
SW													
WSW													
W													
WNW													
NW													
NNW													
VARBL													
CALM													

TOTAL NUMBER OF OBSERVATIONS \_\_\_\_\_

NAVAL WEATHER SERVICE  
STATION REPORT  
ATMOSPHERIC

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

SURFACE WINDS

STATION \_\_\_\_\_ STATION NAME \_\_\_\_\_ YEARS \_\_\_\_\_ MONTH \_\_\_\_\_  
CLASS \_\_\_\_\_ HOURS \_\_\_\_\_  
CONDITION \_\_\_\_\_

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N													
NNE													
NE													
ENE													
E													
ESE													
SE													
SSE													
S													
SSW													
SW													
WSW													
W													
WNW													
NW													
NNW													
VARBL													
CALM													

TOTAL NUMBER OF OBSERVATIONS

# SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

STATION

STATION NAME

YEAR

MONTH

CLASS

HOURS

CONDITION

SPEED KNTS; DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	MEAN WIND SPEED
I												
NNE												
NE												
ENE												
E												
ESE												
SE												
SSE												
S												
SSW												
SW												
WSW												
W												
WNW												
NW												
NNW												
VARBL												
CALM												

TOTAL NUMBER OF OBSERVATIONS

SMOS

NAVAL WEATHER SERVICE  
STATION NO. 1000  
OFFICE NO. 1000

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

SURFACE WINDS

STATION \_\_\_\_\_ STATION NAME \_\_\_\_\_ YEARS \_\_\_\_\_ MONTH \_\_\_\_\_  
 CLASS \_\_\_\_\_  
 CONDITION \_\_\_\_\_

SPEED KNTS, DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N													
NNE													
NE													
ENE													
E													
ESE													
SE													
SSE													
S													
SSW													
SW													
WSW													
W													
WNW													
NW													
NNW													
VARBL													
CALM													

TOTAL NUMBER OF OBSERVATIONS

SUMMARY OF METEOROLOGICAL OBSERVATIONS SURFACE (SMOS)  
NEW RIVER NORTH CAROLINA(U) NAVAL OCEANOGRAPHY COMMAND  
DETACHMENT ASHEVILLE NC AUG 84

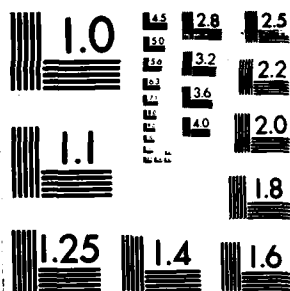
SUMMARY OF METEOROLOGICAL OBSERVATIONS SURFACE (SMOS)  
NEW RIVER NORTH CAROLINA(U) NAVAL OCEANOGRAPHY COMMAND  
DETACHMENT ASHEVILLE NC AUG 84

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MICROCOPY RESOLUTION TEST CHART  
NATIONAL BUREAU OF STANDARDS 1963 A



NAVAL WEATHER SERVICE  
DETACHMENT  
ASHEVILLE, NC

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

SURFACE WINDS

STATION ASHEVILLE, NC STATION NAME 73-02 YEARS 1945  
ALL WEATHER MONTH 12  
 CLASS 12  
 HOURS (L.S.T.) 12  
 CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N												0.0	5.3
NNE												4.7	4.6
NE												1.6	4.6
ENE												3.0	5.4
E												4.0	5.3
ESE												0.0	5.0
SE												4.7	6.5
SSE												7.7	4.7
S												26.0	5.7
SSW												13.0	5.4
SW												7.7	5.9
WSW												2.0	6.5
W												2.0	3.5
WNW												1.6	4.7
NW												1.6	4.4
NNW												2.0	4.7
VARBL													
CALM												4.7	
												10.0	5.2

TOTAL NUMBER OF OBSERVATIONS 310

SMOS

NAVAL WEATHER SERVICE  
DETACHMENT  
ASHEVILLE, NC

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

SURFACE WINDS

STATION ASHEVILLE, NC STATION NAME ASHEVILLE YEARS 1950 MONTH 12  
CLASS ALL WEATHER MOVS (LST) 22  
CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	0.0	0.0	1.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.0	0.0
NNE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
NE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
ENE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
E	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
ESE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
SE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
SSE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
S	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
SSW	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
SW	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
WSW	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
W	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
WNW	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
NW	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
NNW	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
VARBL	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
CALM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

TOTAL NUMBER OF OBSERVATIONS 310

SMOS

NAVAL WEATHER SERVICE  
DETACHMENT  
ASHEVILLE, NC

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

SURFACE WINDS

STATION ASHEVILLE, NC STATION NAME 73-62 YEARS 43 Y  
CLASS ALL WEATHER NORTH ALL  
CONDITION NOVRS 1957

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	1.7	2.3	1.7	.5								5.0	4.0
NNE	1.7	1.7	1.7	.5								5.0	4.0
NE		1.7	.7	.7								3.0	5.8
ENE		1.7	.4	.7								2.4	5.4
E		2.4	1.3	.7	.7							5.0	5.5
ESE		1.7	1.7	.7	.7							3.5	6.1
SE		1.7	1.7	.7								3.5	6.7
SSE	1.7	1.7	2.6	.5								5.5	6.6
S	2.7	4.3	4.6	1.5	.1							12.5	6.7
SSW	2.7	2.6	2.6	.8								9.1	5.9
SW	2.7	2.6	2.6	.7								8.1	5.2
WSW	1.7	2.6	1.7	.4		.7						7.2	5.8
W	1.7	2.7	1.7	.7								6.4	5.3
WNW		1.7	.7	.3								3.1	6.1
NW		1.7	.7	.7								3.7	5.7
NNW		1.7	1.1	.7								3.6	6.1
VARBL													
CALM												11.0	
	22.7	22.7	22.7	5.3	.2	.7						100.0	5.3

TOTAL NUMBER OF OBSERVATIONS 2479

SMOS

NAVAL WEATHER SERVICE  
DETACHMENT  
ASHEVILLE, NC

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

SURFACE WINDS

STATION NAME ASHEVILLE STATION NAME 77-12 YEARS 1961 MONTH JUN

CLASS ALL WEATHER

CONDITION

HOURE (L & T) 01

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	1.7	1.7	1.7									5.1	5.1
NNE	1.7	1.7	1.7	1.7								4.7	4.3
NE	1.7	1.7	1.7									2.7	2.6
ENE	1.7	1.7	1.7									1.7	4.4
E	1.7	2.7	1.7	1.7								2.7	5.7
ESE	1.7	1.7										2.7	3.4
SE	1.7	1.7										1.7	2.4
SSE	1.7											1.7	3.2
S	1.7	2.7	1.7									7.1	5.2
SSW	1.7	1.7	1.7									9.1	4.6
SW	1.7	1.7	1.7									14.7	4.2
WSW	1.7	1.7	1.7	1.7								7.1	3.3
W	1.7	1.7	1.7									6.7	4.2
WNW	1.7	1.7	1.7									2.7	5.1
NW	1.7	1.7										1.7	2.7
NNW	1.7	1.7	1.7	1.7								3.7	5.7
VARBL													
CALM												24.7	
	11.7	30.7	11.7	1.3								100.7	3.3

TOTAL NUMBER OF OBSERVATIONS 300

NAVAL WEATHER SERVICE  
DETACHMENT  
ASHEVILLE, NC

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

SURFACE WINDS

STATION ASHEVILLE, NC STATION NAME 78-03 YEARS JUN  
MONTH 24  
HOURS 1557  
CLASS ALL WEATHER  
CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	0.0	0.0	1.0									0.3	4.6
NNE	0.0	1.0	0.0									0.1	4.5
NE	0.0	0.0	0.0									0.0	4.8
ENE	0.0	1.0	0.0									0.1	4.4
E	0.0	1.0	0.0									0.1	4.8
ESE		0.0										0.0	4.0
SE		0.0										0.0	4.0
SSE	0.0		0.0									0.0	3.7
S	0.0	1.0										0.1	3.1
SSW	0.0	1.0	1.0									0.1	4.0
SW	0.0	0.0	1.0									0.1	4.0
WSW	0.0	1.0	0.0									0.1	3.7
W	0.0	1.0	0.0									0.1	3.5
WNW	1.0	1.0										0.1	3.5
NW	1.0	0.0	0.0									0.1	3.4
NNW	1.0	1.0	1.0									0.1	3.5
VARBL													
CALM												0.0	
	32.0	29.0	10.0									100.0	2.9

TOTAL NUMBER OF OBSERVATIONS 300

SMOS

NAVAL WEATHER SERVICE  
DETACHMENT  
ASHEVILLE, NC

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

SURFACE WINDS

STATION 73-62 STATION NAME 73-62 YEARS 1975 MONTH 7  
CLASS ALL WEATHER HOURS 15  
CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	2.7	7.7	2.7									9.7	5.4
NNE	2.7	7.7	2.7	2.7								7.7	4.5
NE	2.7	2.7	2.7									5.7	3.7
ENE	1.7	2.7	2.7									4.7	4.5
E	1.7	1.7	2.7	2.7								4.7	5.0
ESE	2.7	2.7										1.7	3.5
SE	2.7	2.7	2.7									1.7	4.7
SSE	2.7	2.7	2.7									1.7	4.3
S	1.7	1.7	2.7									3.7	4.1
SSW	1.7	2.7	2.7									7.7	5.3
SW	1.7	4.7	1.7									2.7	4.7
WSW	1.7	5.7	1.7									11.7	5.0
W	1.7	4.7	2.7									12.7	4.9
WNW	1.7	1.7	2.7									4.7	4.0
NW	2.7	1.7	2.7									4.7	3.4
NNW	2.7	2.7	2.7									3.7	5.0
VARBL												11.7	
CALM													
	2.7	7.7	12.7	2.7								10.7	4.2

TOTAL NUMBER OF OBSERVATIONS 100

SMOS

NAVAL WEATHER SERVICE  
DETACHMENT  
ASHEVILLE, NC

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

SURFACE WINDS

STATION \_\_\_\_\_ STATION NAME \_\_\_\_\_ YEARS \_\_\_\_\_ NORTH \_\_\_\_\_  
 CLASS \_\_\_\_\_  
 CONDITION \_\_\_\_\_

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N													
NNE													
NE													
ENE													
E													
ESE													
SE													
SSE													
S													
SSW													
SW													
WSW													
W													
WNW													
NW													
NNW													
VARBL													
CALM													

TOTAL NUMBER OF OBSERVATIONS \_\_\_\_\_

SMOS

NAVAL WEATHER SERVICE  
DETACHMENT  
ASHEVILLE, NC

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

SURFACE WINDS

STATION 75-22 STATION NAME 75-22 YEARS 1951  
CLASS 11  
CONDITION 11  
HOURS 11 MONTH 11

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N												4.7	5.4
NNE												4.7	5.2
NE												2.7	7.1
ENE												5.2	8.1
E												6.2	5.6
ESE												5.2	5.4
SE												2.7	7.4
SSE												2.7	7.2
S												15.7	7.5
SSW												2.7	5.2
SW												4.7	7.5
WSW												1.7	7.2
W												12.7	5.3
WNW												1.7	5.1
NW												1.7	5.2
NNW												2.7	5.6
VARBL													
CALM												1.7	
	12.7	41.7	33.1	17.3	1.0							110.7	5.5

TOTAL NUMBER OF OBSERVATIONS 370

SMOS



NAVAL WEATHER SERVICE  
DETACHMENT  
ASHEVILLE, NC

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

SURFACE WINDS

STATION \_\_\_\_\_ STATION NAME \_\_\_\_\_ YEARS \_\_\_\_\_ MONTH \_\_\_\_\_  
CLASS \_\_\_\_\_  
CONDITION \_\_\_\_\_

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	MEAN WIND SPEED
N												
NNE												
NE												
ENE												
E												
ESE												
SE												
SSE												
S												
SSW												
SW												
WSW												
W												
WNW												
NW												
NNW												
VARBL												
CALM												

TOTAL NUMBER OF OBSERVATIONS \_\_\_\_\_

SMOS

NAVAL WEATHER SERVICE  
DETACHMENT  
ASHEVILLE, NC

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

SURFACE WINDS

STATION \_\_\_\_\_ STATION NAME \_\_\_\_\_ YEARS \_\_\_\_\_ NORTH \_\_\_\_\_  
CLASS \_\_\_\_\_  
CONDITION \_\_\_\_\_

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	MEAN WIND SPEED
N												
NNE												
NE												
ENE												
E												
ESE												
SE												
SSE												
S												
SSW												
SW												
WSW												
W												
WNW												
NW												
NNW												
VARBL												
CALM												

TOTAL NUMBER OF OBSERVATIONS \_\_\_\_\_

SMOS

NAVAL WEATHER SERVICE  
DETACHMENT  
ASHEVILLE, NC

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

SURFACE WINDS

STATION ASHEVILLE, NC STATION NAME ASHEVILLE YEARS 1950-1951

CLAS 100 MONTH 12

CONDITION 100 HOURS 151

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N													
NNE													
NE													
ENE													
E													
ESE													
SE													
SSE													
S													
SSW													
SW													
WSW													
W													
WNW													
NW													
NNW													
VARBL													
CALM													

TOTAL NUMBER OF OBSERVATIONS 151

SMOS

NAVAL WEATHER SERVICE  
DETACHMENT  
ASHEVILLE, NC

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

SURFACE WINDS

STATION	STATION NAME	YEARS	MONTH
	CLASS		HOURS - LST
	CONDITION		

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N													
NNE													
NE													
ENE													
E													
ESE													
SE													
SSE													
S													
SSW													
SW													
WSW													
W													
WNW													
NW													
NNW													
VARBL													
CALM													

TOTAL NUMBER OF OBSERVATIONS

SMOS

NAVAL WEATHER SERVICE  
DETACHMENT  
ASHEVILLE, NC

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

SURFACE WINDS

STATION \_\_\_\_\_ STATION NAME \_\_\_\_\_ YEARS \_\_\_\_\_  
 \_\_\_\_\_  
 CLASS \_\_\_\_\_  
 \_\_\_\_\_  
 CONDITION \_\_\_\_\_

DATE  
MONTH  
YEAR  
HOURS

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	MEAN WIND SPEED
N												
NNE												
NE												
ENE												
E												
ESE												
SE												
SSE												
S												
SSW												
SW												
WSW												
W												
WNW												
NW												
NNW												
VARBL												
CALM												

TOTAL NUMBER OF OBSERVATIONS \_\_\_\_\_

SMOS

NAVAL WEATHER SERVICE  
DETACHMENT  
ASHEVILLE, NC

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

SURFACE WINDS

STATION \_\_\_\_\_ STATION NAME \_\_\_\_\_ YEARS \_\_\_\_\_  
 CLASS \_\_\_\_\_  
 CONDITION \_\_\_\_\_  
 HOUSE \_\_\_\_\_

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N												4.1	2.1
NNE												2.6	1.8
NE												2.5	1.8
ENE												1.2	1.8
E												1.7	1.1
ESE												1.8	1.7
SE												1.8	1.7
SSE												1.7	1.1
S												2.7	1.1
SSW												2.7	1.4
SW												2.7	1.1
WSW												1.1	1.7
W												3.1	1.8
WNW												1.1	1.8
NW												1.1	1.0
NNW												1.1	1.1
VARBL												1.1	
CALM												1.1	
												1.1	

TOTAL NUMBER OF OBSERVATIONS \_\_\_\_\_

SMOS

NAVAL WEATHER SERVICE  
DETACHMENT  
ASHEVILLE, NC

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

SURFACE WINDS

STATION ASHEVILLE STATION NAME ASHEVILLE YEARS 1961-1962 MONTH JUL  
CLASS SEA HOURS 11 51  
CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N												7.4	4.5
NNE												7.4	4.5
NE												6.0	4.4
ENE												5.0	3.8
E												4.0	3.5
ESE												3.0	3.0
SE												2.0	2.5
SSE												1.0	2.0
S												1.0	2.0
SSW												1.0	2.0
SW												1.0	2.0
WSW												1.0	2.0
W												1.0	2.0
WNW												1.0	2.0
NW												1.0	2.0
NNW												1.0	2.0
VARBL												1.0	2.0
CALM												1.0	2.0
	7.4	4.5	3.8	3.0	2.5	2.0	1.0	1.0	1.0	1.0	1.0	11.0	3.1

TOTAL NUMBER OF OBSERVATIONS 110

SMOS

NAVAL WEATHER SERVICE  
DETACHMENT  
ASHEVILLE, NC

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

SURFACE WINDS

STATION ASHEVILLE STATION NAME ASHEVILLE YEARS 1951-1952 MONTH JULY  
CLASS CL HOURS 12  
CONDITION CL

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	1.2	2.4	1.2									5.1	4.7
NNE	1.2	2.4	1.2	1.2								4.2	4.7
NE	1.2	2.4	1.2	1.2								5.2	4.7
ENE	1.2	2.4	1.2	1.2								5.1	4.5
E	1.2	2.4	1.2	1.2								2.7	4.2
ESE	1.2	2.4	1.2	1.2								4.1	4.4
SE	1.2	2.4	1.2	1.2								1.1	3.4
SSE	1.2	2.4	1.2	1.2								2.1	3.2
S	1.2	2.4	1.2	1.2								2.1	3.4
SSW	1.2	2.4	1.2	1.2								2.1	4.2
SW	1.2	2.4	1.2	1.2								7.1	3.4
WSW	1.2	2.4	1.2	1.2								11.1	3.5
W	1.2	2.4	1.2	1.2								15.1	3.1
WNW	1.2	2.4	1.2	1.2								4.1	4.5
NW	1.2	2.4	1.2	1.2								2.1	4.4
NNW	1.2	2.4	1.2	1.2								2.1	4.5
VARBL													
CALM												3.1	
	2.1	4.1	1.1	1.1								1.1	4.5

TOTAL NUMBER OF OBSERVATIONS 11

SMOS



PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

STATION	STATION NAME	YEARS	MONTH
	ALL WEATHER		1
	CLASS		ROUSE L L S T
	CONDITION		

[illegible]**SMOS**

NAVAL WEATHER SERVICE  
DETACHMENT  
ASHEVILLE, NC

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

SURFACE WINDS

STATION ASHEVILLE STATION NAME ASHEVILLE YEARS 1951-1952 MONTH JULY

CLASS NAVAL WEATHER NOBS (LAST)

CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	1.0	1.0	1.0									3.0	4.4
NNE		1.0	1.0	1.0								3.0	4.4
NE		1.0	1.0	1.0								3.0	4.4
ENE		1.0	1.0	1.0								3.0	4.4
E		1.0	1.0	1.0								3.0	4.4
ESE		1.0	1.0	1.0								3.0	4.4
SE	1.0	1.0	1.0	1.0								3.0	4.4
SSE	1.0	1.0	1.0	1.0								3.0	4.4
S	1.0	1.0	1.0	1.0								3.0	4.4
SSW	1.0	1.0	1.0	1.0								3.0	4.4
SW	1.0	1.0	1.0	1.0								3.0	4.4
WSW	1.0	1.0	1.0	1.0								3.0	4.4
W	1.0	1.0	1.0	1.0								3.0	4.4
WNW	1.0	1.0	1.0	1.0								3.0	4.4
NW	1.0	1.0	1.0	1.0								3.0	4.4
NNW	1.0	1.0	1.0	1.0								3.0	4.4
VARBL												3.0	4.4
CALM												3.0	4.4

TOTAL NUMBER OF OBSERVATIONS 117

SMOS

NAVAL WEATHER SERVICE  
DETACHMENT  
ASHEVILLE, NC

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

SURFACE WINDS

STATION \_\_\_\_\_ STATION NAME \_\_\_\_\_ YEARS \_\_\_\_\_  
 CLASS \_\_\_\_\_  
 CONDITION \_\_\_\_\_  
 MONTH \_\_\_\_\_  
 HOURS \_\_\_\_\_

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	1.0	1.0										2.0	1.0
NNE	1.0	1.0										2.0	1.0
NE	1.0	1.0										2.0	1.0
ENE	1.0	1.0										2.0	1.0
E	1.0	1.0										2.0	1.0
ESE	1.0	1.0										2.0	1.0
SE	1.0	1.0										2.0	1.0
SSE	1.0	1.0										2.0	1.0
S	1.0	1.0										2.0	1.0
SSW	1.0	1.0										2.0	1.0
SW	1.0	1.0										2.0	1.0
WSW	1.0	1.0										2.0	1.0
W	1.0	1.0										2.0	1.0
WNW	1.0	1.0										2.0	1.0
NW	1.0	1.0										2.0	1.0
NNW	1.0	1.0										2.0	1.0
VARBL													
CALM													
	5.0	4.0	1.0	1.0								10.0	1.0

TOTAL NUMBER OF OBSERVATIONS \_\_\_\_\_

SMOS

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

STATION	STATION NAME	YEARS	COUNT
	CLARK		HOURS 12 5 1
	CONDITION		

[illegible]

TOTAL NUMBER OF OBSERVATIONS

**SMOS**

NAVY WEATHER SERVICE  
DETACHMENT  
AT HONOLULU

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

SURFACE WINDS

STATION \_\_\_\_\_ STATION NAME \_\_\_\_\_ YEARS \_\_\_\_\_

CLIM \_\_\_\_\_

CONDITION \_\_\_\_\_

NO. OF HOURS \_\_\_\_\_

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	MEAN WIND SPEED
N												
NNE												
NE												
ENE												
E												
ESE												
SE												
SSE												
S												
SSW												
SW												
WSW												
W												
WNW												
NW												
NNW												
VARBL												
CALM												

TOTAL NUMBER OF OBSERVATIONS \_\_\_\_\_

SMOS

NAVAL WEATHER SERVICE  
DETACHMENT  
ASHEVILLE, NC

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

SURFACE WINDS

STATION \_\_\_\_\_ STATION NAME \_\_\_\_\_ YEARS \_\_\_\_\_ MONTH \_\_\_\_\_  
 ALL WEATHER CLASS \_\_\_\_\_  
 CONDITION \_\_\_\_\_  
 HOURLY \_\_\_\_\_

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N													
NNE													
NE													
ENE													
E													
ESE													
SE													
SSE													
S													
SSW													
SW													
WSW													
W													
WNW													
NW													
NNW													
VARBL													
CALM													

TOTAL NUMBER OF OBSERVATIONS \_\_\_\_\_

NAVAL WEATHER SERVICE  
DETACHMENT  
ASHEVILLE, NC

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

SURFACE WINDS

STATION \_\_\_\_\_ STATION NAME \_\_\_\_\_ YEARS \_\_\_\_\_ MONTH \_\_\_\_\_  
 \_\_\_\_\_ CLASS \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_ CONDITION \_\_\_\_\_  
 \_\_\_\_\_

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N													
NNE													
NE													
ENE													
E													
ESE													
SE													
SSE													
S													
SSW													
SW													
WSW													
W													
WNW													
NW													
NNW													
VARBL													
CALM													

TOTAL NUMBER OF OBSERVATIONS \_\_\_\_\_

SMOS

NAVAL WEATHER SERVICE  
DETACHMENT  
ASHEVILLE, NC

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

SURFACE WINDS

STATION \_\_\_\_\_ STATION NAME \_\_\_\_\_ YEARS \_\_\_\_\_ MONTH \_\_\_\_\_

CLASS \_\_\_\_\_

CONDITION \_\_\_\_\_

HOURLY \_\_\_\_\_

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	MEAN WIND SPEED
N												
NNE												
NE												
ENE												
E												
ESE												
SE												
SSE												
S												
SSW												
SW												
WSW												
W												
WNW												
NW												
NNW												
VARBL												
CALM												

TOTAL NUMBER OF OBSERVATIONS \_\_\_\_\_

SMOS



<sup>a</sup>  $\chi^2 = 6.07$ ,  $p < .05$ .  $\chi^2 = 8.91$ ,  $p < .01$ .

STA 1000

STATION NAME

YEAR:

बुद्धिमान ।

**CLASS**

NOV 15 1977

**CONDITION**

[illegible]

TOTAL NUMBER OF OBSERVATIONS

**SMOS**

Form No. 1-61 (Rev. 1-61)  
 PREPARED BY  
 WINDS SECTION

# PERCENTAGE FREQUENCY OF WIND DIRECTION AND SPEED (FROM HOURLY OBSERVATIONS)

## SURFACE WINDS

STATION	STATION NAME	YEARS	MONTH
	CLASS		HOURS
	CONDITION		

SPEED (KNTS) DIR	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	MEAN WIND SPEED
N												
NNE												
NE												
ENE												
E												
ESE												
SE												
SSE												
S												
SSW												
SW												
WSW												
W												
WNW												
NW												
NNW												
VARBL												
CALM												

TOTAL NUMBER OF OBSERVATIONS

SMOS

NAVY AND MARINE CORPS  
DEPARTMENT  
WASHINGTON

# PERCENTAGE FREQUENCY OF WIND DIRECTION AND SPEED (FROM HOURLY OBSERVATIONS)

## SURFACE WINDS

STATION \_\_\_\_\_ STATION NAME \_\_\_\_\_ YEARS \_\_\_\_\_ MONTH \_\_\_\_\_  
 CLASS \_\_\_\_\_  
 CONDITION \_\_\_\_\_  
 HOURS \_\_\_\_\_

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	MEAN WIND SPEED
N												
NNE												
NE												
ENE												
E												
ESE												
SE												
SSE												
S												
SSW												
SW												
WSW												
W												
WNW												
NW												
NNW												
VARBL												
CALM												

TOTAL NUMBER OF OBSERVATIONS \_\_\_\_\_

NAVAL WEATHER SERVICE  
ATTACHMENT  
WHELEGE, NC

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

SURFACE WINDS

STATION	STATION NAME	YEARS	MONTH
	CLASS		NOVEMBER
	CONDITION		

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N													
NNE													
NE													
ENE													
E													
ESE													
SE													
SSE													
S													
SSW													
SW													
WSW													
W													
WNW													
NW													
NNW													
VARBL													
CALM													

TOTAL NUMBER OF OBSERVATIONS

SMOS

NAVAL WEATHER SERVICE  
DETACHMENT  
ASHEVILLE, NC

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

SURFACE WINDS

STATION ASHEVILLE, NC STATION NAME ASHEVILLE YEARS 1961-62 MONTH ALL MONTHS  
CLASS ALL WEATHER  
CONDITION ALL WEATHER  
HOURS ALL DAY

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	1.0	1.0	1.0									3.0	1.0
NNE	1.0	1.0	1.0	1.0								3.0	1.0
NE	1.0	1.0	1.0	1.0								3.0	1.0
ENE	1.0	1.0	1.0	1.0								4.0	1.0
E	1.0	1.0	1.0	1.0	1.0							5.0	1.0
ESE	1.0	1.0	1.0	1.0	1.0							5.0	1.0
SE	1.0	1.0	1.0	1.0	1.0							5.0	1.0
SSE	1.0	1.0	1.0	1.0	1.0							5.0	1.0
S	1.0	1.0	1.0	1.0	1.0							5.0	1.0
SSW	1.0	1.0	1.0	1.0	1.0							5.0	1.0
SW	1.0	1.0	1.0	1.0	1.0							5.0	1.0
WSW	1.0	1.0	1.0	1.0	1.0							5.0	1.0
W	1.0	1.0	1.0	1.0	1.0							5.0	1.0
WNW	1.0	1.0	1.0	1.0	1.0							5.0	1.0
NW	1.0	1.0	1.0	1.0	1.0							5.0	1.0
NNW	1.0	1.0	1.0	1.0	1.0							5.0	1.0
VARBL													
CALM													
	1.0	1.0	1.0	1.0	1.0							5.0	1.0

TOTAL NUMBER OF OBSERVATIONS 312

SMOS

NAVAL WEATHER SERVICE  
DETACHMENT  
ASHEVILLE, NC

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

SURFACE WINDS

STATION	STATION NAME	YEARS	MONTH
	CLASS		HOUSE NO.
	CONDITION		

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	MEAN WIND SPEED
N												
NNE												
NE												
ENE												
E												
ESE												
SE												
SSE												
S												
SSW												
SW												
WSW												
W												
WNW												
NW												
NNW												
VARBL												
CALM												

TOTAL NUMBER OF OBSERVATIONS

SMOS

NAVAL WEATHER SERVICE  
STATION NAME  
WIND RECORD

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

SURFACE WINDS

STATION \_\_\_\_\_ STATION NAME \_\_\_\_\_ YEARS \_\_\_\_\_ NORTH \_\_\_\_\_  
 CLASS \_\_\_\_\_ HOUSE \_\_\_\_\_  
 CONDITION \_\_\_\_\_

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N													
NNE													
NE													
ENE													
E													
ESE													
SE													
SSE													
S													
SSW													
SW													
WSW													
W													
WNW													
NW													
NNW													
VARBL													
CALM													

TOTAL NUMBER OF OBSERVATIONS \_\_\_\_\_

SMOS

NAVAL WEATHER SERVICE  
DETACHMENT  
ASHEVILLE, NC

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

SURFACE WINDS

STATION \_\_\_\_\_ STATION NAME \_\_\_\_\_ YEARS \_\_\_\_\_

CLASS \_\_\_\_\_

CONDITION \_\_\_\_\_

HOURLY \_\_\_\_\_

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N													
NNE													
NE													
ENE													
E													
ESE													
SE													
SSE													
S													
SSW													
SW													
WSW													
W													
WNW													
NW													
NNW													
VARBL													
CALM													

TOTAL NUMBER OF OBSERVATIONS \_\_\_\_\_



NAVAL WEATHER SERVICE  
DETACHMENT  
ASHEVILLE, NC

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

SURFACE WINDS

STATION	STATION NAME	YEARS	DATE MONTH
	CLASS		HOURS
	CONDITION		

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	MEAN WIND SPEED
N												
NNE												
NE												
ENE												
E												
ESE												
SE												
SSE												
S												
SSW												
SW												
WSW												
W												
WNW												
NW												
NNW												
VARBL												
CALM												

TOTAL NUMBER OF OBSERVATIONS

SMOS

NAVAL WEATHER SERVICE  
DETACHMENT  
APPELLE, NC

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

SURFACE WINDS

STATION \_\_\_\_\_ STATION NAME \_\_\_\_\_ YEARS \_\_\_\_\_

CLAS \_\_\_\_\_

CONDITION \_\_\_\_\_

MOUSE C.S.T.

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N													
NNE													
NE													
ENE													
E													
ESE													
SE													
SSE													
S													
SSW													
SW													
WSW													
W													
WNW													
NW													
NNW													
VARBL													
CALM													

TOTAL NUMBER OF OBSERVATIONS

SMOS

NAVAL WEATHER SERVICE  
DETACHMENT  
ASHEVILLE, NC

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

SURFACE WINDS

STATION \_\_\_\_\_ STATION NAME \_\_\_\_\_ YEARS \_\_\_\_\_ MONTH \_\_\_\_\_  
 \_\_\_\_\_ CLASS \_\_\_\_\_  
 \_\_\_\_\_ CONDITION \_\_\_\_\_  
 \_\_\_\_\_

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	MEAN WIND SPEED
N												
NNE												
NE												
ENE												
E												
ESE												
SE												
SSE												
S												
SSW												
SW												
WSW												
W												
WNW												
NW												
NNW												
VARBL												
CALM												

TOTAL NUMBER OF OBSERVATIONS \_\_\_\_\_

SMOS

NAVAL WEATHER SERVICE  
STATIONMENT  
AT THE VESSEL NO.

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

SURFACE WINDS

STATION \_\_\_\_\_ STATION NAME \_\_\_\_\_ YEAR \_\_\_\_\_ MONTH \_\_\_\_\_

CLASS \_\_\_\_\_

CONDITION \_\_\_\_\_

HOURE \_\_\_\_\_

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N													
NNE													
NE													
ENE													
E													
ESE													
SE													
SSE													
S													
SSW													
SW													
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TOTAL NUMBER OF OBSERVATIONS \_\_\_\_\_

SMOS

NAVY AND MARINE CORPS  
 OBSERVATION  
 REPORT

PERCENTAGE FREQUENCY OF WIND  
 DIRECTION AND SPEED  
 (FROM HOURLY OBSERVATIONS)

SURFACE WINDS

STATION \_\_\_\_\_ STATION NAME \_\_\_\_\_ YEARS \_\_\_\_\_ MONTH \_\_\_\_\_  
 CLASS \_\_\_\_\_ HOUR \_\_\_\_\_  
 CONDITION \_\_\_\_\_

SPEED (KNTS) DIR	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N													
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TOTAL NUMBER OF OBSERVATIONS \_\_\_\_\_

SMOS

# SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

STATION \_\_\_\_\_ STATION NAME \_\_\_\_\_ YEARS \_\_\_\_\_ MONTH \_\_\_\_\_  
 CLASS \_\_\_\_\_ HOURS \_\_\_\_\_  
 CONDITION \_\_\_\_\_

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N													
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TOTAL NUMBER OF OBSERVATIONS \_\_\_\_\_

SMOS

# SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

STATION

STATION NAME

YEARS

MONTH

CLASS

HOURE

COORDIN

SPEED (KNTS) DIR	1-3	4-6	7-10	11-16	17-21	22-27	28-33	34-40	41-47	48-55	≥56	%	MEAN WIND SPEED
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TOTAL NUMBER OF OBSERVATIONS

SMOS

# SURFACE WINDS

## PERCENTAGE FREQUENCY OF WIND DIRECTION AND SPEED (FROM HOURLY OBSERVATIONS)

STATION

STATION NAME

YEARS

DATE

CLASS

HOURLY

CONDITION

SPEED (KNTS) DIR	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	MEAN WIND SPEED
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TOTAL NUMBER OF OBSERVATIONS

SMOS



NAVY AREA OFFICE  
 WASHINGTON, D.C.  
 FORM 1-61

PERCENTAGE FREQUENCY OF WIND  
 DIRECTION AND SPEED  
 (FROM HOURLY OBSERVATIONS)

SURFACE WINDS

STATION	STATION NAME	YEARS	MONTH
	CLASS		HOURS
	CONDITION		

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	MEAN WIND SPEED
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TOTAL NUMBER OF OBSERVATIONS

SMOS

NAVAL WEATHER SERVICE  
DETACHMENT  
ADRIANVILLE

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

SURFACE WINDS

STATION	STATION NAME	YEARS	MONTH
	CLASS		HOUSE
	CONDITION		

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N													
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TOTAL NUMBER OF OBSERVATIONS

NAVAL WEATHER SERVICE  
DETACHMENT  
ASHEVILLE, NC

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

SURFACE WINDS

STATION \_\_\_\_\_ STATION NAME \_\_\_\_\_ YEARS \_\_\_\_\_ MONTH \_\_\_\_\_  
CLASS \_\_\_\_\_  
CONDITION \_\_\_\_\_

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
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NNW													1.7
VARBL													1.7
CALM													1.7

TOTAL NUMBER OF OBSERVATIONS \_\_\_\_\_

SMOS

NAVY WEATHER SERVICE  
DETACHMENT  
ARNEVILLE, NC

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

SURFACE WINDS

STATION \_\_\_\_\_ STATION NAME \_\_\_\_\_ YEARS \_\_\_\_\_ MONTH \_\_\_\_\_  
 CLASS \_\_\_\_\_  
 CONDITION \_\_\_\_\_  
 HOURS \_\_\_\_\_

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	MEAN WIND SPEED
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TOTAL NUMBER OF OBSERVATIONS \_\_\_\_\_

SMOS

NAVAL WEATHER SERVICE  
DETACHMENT  
AIRVILLE, NC

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

SURFACE WINDS

STATION \_\_\_\_\_ STATION NAME \_\_\_\_\_ YEARS \_\_\_\_\_  
 CLASS \_\_\_\_\_  
 CONDITION \_\_\_\_\_  
 MONTH \_\_\_\_\_  
 HOURS \_\_\_\_\_

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
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TOTAL NUMBER OF OBSERVATIONS \_\_\_\_\_

NAVAL WEATHER SERVICE  
DETACHMENT  
ASHEVILLE, NC

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

SURFACE WINDS

STATION	STATION NAME	YEARS	MONTH
		CLASS	HOURS
	CONDITION		

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
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TOTAL NUMBER OF OBSERVATIONS 310

SMOS

NAVAL WEATHER SERVICE  
DETACHMENT  
ASHEVILLE, NC

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

SURFACE WINDS

STATION \_\_\_\_\_ STATION NAME \_\_\_\_\_ YEARS \_\_\_\_\_ MONTH \_\_\_\_\_  
CLASS \_\_\_\_\_  
CONDITION \_\_\_\_\_  
HOURS \_\_\_\_\_

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
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TOTAL NUMBER OF OBSERVATIONS \_\_\_\_\_

NAVAL WEATHER SERVICE  
DETACHMENT  
ASHEVILLE, NC

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

SURFACE WINDS

STATION \_\_\_\_\_ STATION NAME \_\_\_\_\_ YEARS \_\_\_\_\_ MONTH \_\_\_\_\_

CLAS \_\_\_\_\_

CONDITION \_\_\_\_\_

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
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TOTAL NUMBER OF OBSERVATIONS \_\_\_\_\_



NAVAL WEATHER SERVICE  
DETACHMENT  
ASHEVILLE, NC

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

SURFACE WINDS

STATION \_\_\_\_\_ STATION NAME \_\_\_\_\_ YEARS \_\_\_\_\_  
 CLASS \_\_\_\_\_  
 CONDITION \_\_\_\_\_  
 HOURS \_\_\_\_\_

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	MEAN WIND SPEED
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TOTAL NUMBER OF OBSERVATIONS \_\_\_\_\_

SMOS

NAVAL WEATHER SERVICE  
 WASHINGTON, D.C.  
 FORM 10-1

PERCENTAGE FREQUENCY OF WIND  
 DIRECTION AND SPEED  
 (FROM HOURLY OBSERVATIONS)

SURFACE WINDS

STATION \_\_\_\_\_ STATION NAME \_\_\_\_\_ YEARS \_\_\_\_\_ MONTH \_\_\_\_\_  
 CLASS \_\_\_\_\_  
 CONDITION \_\_\_\_\_

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	MEAN WIND SPEED
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TOTAL NUMBER OF OBSERVATIONS \_\_\_\_\_

SMOS

U.S. WEATHER BUREAU  
STATION NAME  
A. H. H. H. H.

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

SURFACE WINDS

STATION

STATION NAME

YEARS

MONTH

CLASS

HOURS

CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
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TOTAL NUMBER OF OBSERVATIONS

SMOS

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

1. *Pharmaceutical industry* – The pharmaceutical industry is the largest of the three industries, with sales of \$10.5 billion in 1997. It is the only industry in the sample that has a positive net income. The industry is characterized by high R&D expenditures, which are a significant portion of total sales. The industry is also characterized by high advertising expenditures, which are a significant portion of total sales. The industry is also characterized by high sales, which are a significant portion of total sales.

STATION	STATION NAME	FEARS	DATA
	CLASS		NO. OF
	CONDITION		

[illegible]

TOTAL NUMBER OF OBSERVATIONS

# SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

STATION

STATION NAME

YEARS

DATE

CLASS

NO. OF

CONDITION

SPEED KNTS)	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
DIR													
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TOTAL NUMBER OF OBSERVATIONS

SMOS

# SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

STATION

STATION NAME

YEAR

MOON

CLASS

WINDS

CONDITION

SPEED KNTS. DIR	1-3	4-6	7-10	11-16	17-21	22-27	28-33	34-40	41-47	48-55	≥56	%	MEAN WIND SPEED
N													
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CALM													

TOTAL NUMBER OF OBSERVATIONS

SAMPLES

Station Name  
 Date  
 Year

# PERCENTAGE FREQUENCY OF WIND DIRECTION AND SPEED (FROM HOURLY OBSERVATIONS)

## SURFACE WINDS

STATION \_\_\_\_\_ STATION NAME \_\_\_\_\_ YEARS \_\_\_\_\_ MONTH \_\_\_\_\_  
 CLASS \_\_\_\_\_ NO. OF \_\_\_\_\_  
 CONDITION \_\_\_\_\_

SPEED KNTS DIR	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
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TOTAL NUMBER OF OBSERVATIONS \_\_\_\_\_

1. *Pharmaceutical industry* – The pharmaceutical industry is a major contributor to the economy of the United States. It is a highly competitive industry with a high barrier to entry. The industry is characterized by a high level of research and development (R&D) spending, which is necessary to develop new drugs. The industry is also characterized by a high level of marketing spending, which is necessary to promote new drugs. The industry is a major source of employment in the United States.

**STATION**

STATION NAME

YEARS

NOTE

**CLASS**

NOUVEAU

**CONDITION**

TOTAL NUMBER OF OBSERVATIONS

**SMAOS**



NAVAL WEATHER SERVICE  
STATION  
A-111111, NC

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

SURFACE WINDS

STATION \_\_\_\_\_ STATION NAME \_\_\_\_\_ YEARS \_\_\_\_\_ MONTH \_\_\_\_\_  
CLASS \_\_\_\_\_  
CONDITION \_\_\_\_\_  
HOURS \_\_\_\_\_

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
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TOTAL NUMBER OF OBSERVATIONS \_\_\_\_\_

SMOS

NAVAL WEATHER SERVICE  
DETACHMENT  
ASHEVILLE, NC

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

SURFACE WINDS

STATION	STATION NAME	YEARS	MONTH
	CLASS		HOUS
	CONDITION		

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
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TOTAL NUMBER OF OBSERVATIONS

SMOS

NAVAL WEATHER SERVICE  
DETACHMENT  
ASHEVILLE, NC

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

SURFACE WINDS

STATION \_\_\_\_\_ STATION NAME \_\_\_\_\_ YEARS \_\_\_\_\_

CLASS \_\_\_\_\_

CONDITION \_\_\_\_\_

NOV 1955

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
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TOTAL NUMBER OF OBSERVATIONS \_\_\_\_\_

SMOS

NAVAL WEATHER SERVICE  
DETACHMENT  
ASHEVILLE, NC

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

SURFACE WINDS

STATION \_\_\_\_\_ STATION NAME \_\_\_\_\_ YEARS \_\_\_\_\_

CLASS \_\_\_\_\_

CONDITION \_\_\_\_\_

WORTH \_\_\_\_\_

HOURLY \_\_\_\_\_

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
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TOTAL NUMBER OF OBSERVATIONS \_\_\_\_\_

NAVAL WEATHER SERVICE  
DETACHMENT  
ASHEVILLE, NC

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

SURFACE WINDS

STATION \_\_\_\_\_ STATION NAME \_\_\_\_\_ YEARS \_\_\_\_\_  
 CLASS \_\_\_\_\_ MONTH \_\_\_\_\_  
 CONDITION \_\_\_\_\_ HOURS \_\_\_\_\_

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
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CALM													

TOTAL NUMBER OF OBSERVATIONS \_\_\_\_\_

SMOS

NAVAL WEATHER SERVICE  
DETACHMENT  
ASHEVILLE, NC

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

SURFACE WINDS

STATION	STATION NAME	YEARS	T. S. P. MONTH
	CLASS		HOURS L. S. T.
	CONDITION		

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
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TOTAL NUMBER OF OBSERVATIONS

SMOS

NAVAL WEATHER SERVICE  
DETACHMENT  
ASHEVILLE, NC

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

SURFACE WINDS

STATION \_\_\_\_\_ STATION NAME \_\_\_\_\_ YEARS \_\_\_\_\_ MONTH \_\_\_\_\_  
CLASS \_\_\_\_\_  
CONDITION \_\_\_\_\_  
HOURS \_\_\_\_\_

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
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CALM													

TOTAL NUMBER OF OBSERVATIONS \_\_\_\_\_

SMOS

NAVAL WEATHER SERVICE  
 DETACHMENT  
 WHELEIGH, NC

PERCENTAGE FREQUENCY OF WIND  
 DIRECTION AND SPEED  
 (FROM HOURLY OBSERVATIONS)

SURFACE WINDS

STATION \_\_\_\_\_ STATION NAME \_\_\_\_\_ YEARS \_\_\_\_\_ MONTH \_\_\_\_\_  
 CLASS \_\_\_\_\_  
 CONDITION \_\_\_\_\_  
 HOURS \_\_\_\_\_

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
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TOTAL NUMBER OF OBSERVATIONS \_\_\_\_\_

SMOS



NAVAL WEATHER SERVICE  
STATION  
WIND RECORD

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

SURFACE WINDS

STATION

STATION NAME

YEARS

MONTH

CLASS

HOURS

CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 36	N	MEAN WIND SPEED
N													
NNE													
NE													
ENE													
E													
ESE													
SE													
SSE													
S													
SSW													
SW													
WSW													
W													
WNW													
NW													
NNW													
VARBL													
CALM													

TOTAL NUMBER OF OBSERVATIONS

SMOS

# SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

STATION \_\_\_\_\_ STATION NAME \_\_\_\_\_ YEAR \_\_\_\_\_ MONTH \_\_\_\_\_

CLASS \_\_\_\_\_

CONDITION \_\_\_\_\_

SPEED (KNTS) DIR	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N													
NNE													
NE													
ENE													
E													
ESE													
SE													
SSE													
S													
SSW													
SW													
WSW													
W													
WNW													
NW													
NNW													
VARBL													
CALM													

TOTAL NUMBER OF OBSERVATIONS \_\_\_\_\_

SMOS

# SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

STATION

STATION NAME

YEARS

MONTH

CLASS

NO. OF

CONDITION

SPEED KNTS. DIR.	1-3	4-6	7-10	11-16	17-21	22-27	28-33	34-40	41-47	48-55	≥56	%	MEAN WIND SPEED
N													
NNE													
NE													
ENE													
E													
ESE													
SE													
SSE													
S													
SSW													
SW													
WSW													
W													
WNW													
NW													
NNW													
VARBL													
CALM													

TOTAL NUMBER OF OBSERVATIONS

SWOS

# SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

STATION \_\_\_\_\_ STATION NAME \_\_\_\_\_ YEARS \_\_\_\_\_  
CLASS \_\_\_\_\_  
CONDITION \_\_\_\_\_

SPEED KNTS; DIR	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	56 - 63	64 - 70	71 - 77	78 - 84	85 - 91	92 - 99	100
N																	
NNE																	
NE																	
ENE																	
E																	
ESE																	
SE																	
SSE																	
S																	
SSW																	
SW																	
WSW																	
W																	
WNW																	
NW																	
NNW																	
VARBL																	
CALM																	

TOTAL NUMBER OF OBSERVATIONS

SMVTS

## PART D

## CEILING VERSUS VISIBILITY

The following table gives the relationship between the ceiling and the visibility for various types of weather conditions. The values are given in feet and meters.

- a. Ceiling and visibility are equal.
- b. Ceiling is less than visibility.
- c. Ceiling is greater than visibility.

The following table gives the relationship between the ceiling and the visibility for various types of weather conditions. The values are given in feet and meters.

The following table gives the relationship between the ceiling and the visibility for various types of weather conditions. The values are given in feet and meters.

EXAMPLES FOR USE OF CEILING VERSUS VISIBILITY TABLES IN THIS TABULATION

		VISIBILITY - STATUTE MILES									
		10	9	8	7	6	5	4	3	2	1
CEILING - FEET	1500	95.4	96.9	98.3	99.1	99.6	100.0	100.0	100.0	100.0	100.0
	1000	95.4	96.9	98.3	99.1	99.6	100.0	100.0	100.0	100.0	100.0
	500	95.4	96.9	98.3	99.1	99.6	100.0	100.0	100.0	100.0	100.0
	0	95.4	96.9	98.3	99.1	99.6	100.0	100.0	100.0	100.0	100.0

EXAMPLE # 1 Read ceiling values independently of visibility under column at right headed  $\geq 0$ .  
For instance, from the table: Ceiling  $\geq 1500$  feet = 95.4%.  
Ceiling  $\geq 500$  feet = 99.6%.

EXAMPLE # 2 Read visibilities independently of ceilings on bottom line opposite  $\geq 0$ . From the table:  
Visibility  $\geq 3$  miles = 95.4%.  
Visibility  $\geq 2$  miles = 96.9%.  
Visibility  $\geq 1$  mile = 99.6%.

EXAMPLE # 3 To obtain combinations of ceiling with visibility, read figure at intersection of the two categories; i.e.: Ceiling  $\geq 1500$  feet with visibility  $\geq 3$  miles = 91.0%.

## PART D

### ADDITIONAL EXAMPLES

EXAMPLE # 4 Values below minimums stated in the table may be obtained by subtracting the value given in the table from 100%.  
Thus, to obtain the percentage of observations with ceiling  $< 1500$  feet and/or visibility  $< 3$  miles, subtract the value read from the table at the intersection, which is 91.0, from 100.0. The answer 9.0 is the percentage of observations with ceiling  $< 1500$  feet and/or visibility  $< 3$  miles.

Likewise, the percentage of observations with ceiling  $< 500$  feet and/or visibility  $< 1$  mile is 2.6, obtained by subtracting 97.4 from 100.0.

EXAMPLE # 5 To find the percentage of observations falling within the two categories given in example above, subtract the value read from the table for the first set of limits from the value in the table for the second set of limits. The difference will be the percentage of observations meeting the lower set of limits, but not meeting the higher set of limits.

The value 91.0 read from the table at the intersection of  $\geq 1500$  feet with  $\geq 3$  miles, subtracted from 97.4 read from the table at the intersection of  $\geq 500$  feet with  $\geq 1$  mile is equal to 6.4%. Thus, 6.4 percent of the observations meet the criteria: "ceiling  $\geq 500$  feet with visibility  $\geq 1$  mile, but  $< 3$  miles; or ceiling  $\geq 500$  feet, but  $< 1500$  feet with visibility  $\geq 1$  mile."

Since these tabulations are prepared in several ways including by month, by 3-hour groups, it is possible to determine diurnal variations of ceiling and visibility limits as well as probabilities of various ceiling-visibility combinations.

## PART D

## SKY COVER

This report is prepared from 36 hourly observations and is a percentage of total observations. It is presented in two tables as follows:

1. Monthly and annual - all years and all years combined.

2. Monthly - present and 35-year groups.

3. 36-hour sky cover at station is not reported by U.S. Service until 1945. Data available, were purchased for Air Force stations beginning in 1945, but were not available for stations until 1948 or 1949. Weather Bureau stations recorded total cloud cover beginning sometime in 1945, but few stations have reported data prior to 1945. Station will, of course, be limited to period available.

4. All source sources of prepared data used in this summary report. Data were converted to tenths prior to summarizing, and station data were converted to tenths if data were originally reported in whole or decimal form.

VALUES

1  
2  
3  
4  
5  
6  
7  
8  
9  
10

11  
12  
13  
14  
15  
16  
17  
18  
19  
20

5. 36-hour sky cover at station is not reported by U.S. Service until 1945. Data available, were purchased for Air Force stations beginning in 1945, but were not available for stations until 1948 or 1949. Weather Bureau stations recorded total cloud cover beginning sometime in 1945, but few stations have reported data prior to 1945. Station will, of course, be limited to period available.

VALUES  
1  
2  
3  
4  
5  
6  
7  
8  
9  
10  
11  
12  
13  
14  
15  
16  
17  
18  
19  
20



NAVAL WEATHER SERVICE FORM NO. 10-1 (10-6-60)

# CEILING VERSUS VISIBILITY

STATION

STATION NAME

YEARS

MONTH

## PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

HOURS

CEILING (FEET)	VISIBILITY (STATUTE MILES)															
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2½	≥ 2	≥ 1½	≥ 1¼	≥ 1	≥ ¾	≥ ½	≥ ¼	≥ 5/16	≥ 1/8	≥ 0
NO CEILING																
≥ 20000																
IV 18000																
IV 16000																
IV 14000																
IV 12000																
IV 10000																
IV 9000																
IV 8000																
IV 7000																
IV 6000																
IV 5000																
IV 4500																
IV 4000																
IV 3500																
IV 3000																
IV 2500																
IV 2000																
IV 1800																
IV 1500																
IV 1200																
IV 1000																
IV 900																
IV 800																
IV 700																
IV 600																
IV 500																
IV 400																
IV 300																
IV 200																
IV 100																
IV 0																

TOTAL NUMBER OF OBSERVATIONS

DIRNAVICLASSMET 5505

NAVAL WEATHER SERVICE STATION METEOROLOGICAL

# CEILING VERSUS VISIBILITY

STATION

STATION NAME

YEARS

MONTH

## PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

HOURS

CEILING FEET	VISIBILITY (STATUTE MILES)															
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2½	≥ 2	≥ 1½	≥ 1	≥ 1	≥ ½	≥ ¼	≥ ¼	≥ ¼	≥ 5 16	≥ 0
NO CEILING																
≥ 20000																
IV 18000																
IV 16000																
IV 14000																
IV 12000																
IV 10000																
IV 9000																
IV 8000																
IV 7000																
IV 6000																
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IV 4500																
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IV 1800																
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IV 1200																
IV 1000																
IV 900																
IV 800																
IV 700																
IV 600																
IV 500																
IV 400																
IV 300																
IV 200																
IV 100																
IV 0																

TOTAL NUMBER OF OBSERVATIONS

DERIVATIVE MET

# CEILING VERSUS VISIBILITY

STATION

STATION NAME

YEARS

MONTH

## PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

CEILING FEET	VISIBILITY (STATUTE MILES)															
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2½	≥ 2	≥ 1½	≥ 1¼	≥ 1	≥ ¾	≥ ½	≥ ¼	≥ 1/8	≥ 0	≥ 0
NO CEILING																
≥ 20000																
18000																
16000																
14000																
12000																
10000																
9000																
8000																
7000																
6000																
5000																
4500																
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400																
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100																
0																

TOTAL NUMBER OF OBSERVATIONS

UNAVAILABLE MET. SMOG

NAVAL WEATHER SERVICE (FORM 10-1) (REV. 1-64)

# CEILING VERSUS VISIBILITY

STATION

STATION NAME

YEARS

MONTH

## PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

NO. OF

CEILING FEET	VISIBILITY, STATUTE MILES														
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2½	≥ 2	≥ 1½	≥ 1	≥ ½	≥ ¼	≥ 1/8	≥ 1/16	≥ 1/32	≥ 0
NO CEILING															
IV 20000															
IV 18000															
IV 16000															
IV 14000															
IV 12000															
IV 10000															
IV 9000															
IV 8000															
IV 7000															
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IV 1500															
IV 1200															
IV 1000															
IV 900															
IV 800															
IV 700															
IV 600															
IV 500															
IV 400															
IV 300															
IV 200															
IV 100															
IV 0															

TOTAL NUMBER OF OBSERVATIONS

FORM 10-1 (REV. 1-64)

# CEILING VERSUS VISIBILITY

STATION

STATION NAME

YEARS

DATE

PERCENTAGE FREQUENCY OF OCCURRENCE  
(FROM HOURLY OBSERVATIONS)

CEILING FEET	VISIBILITY - STATUTE MILES															
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2.5	≥ 2	≥ 1.5	≥ 1	≥ .5	≥ .4	≥ .3	≥ .25	≥ .2	≥ .15	≥ .1
NO CEILING																
≥ 20000																
≥ 18000																
≥ 16000																
≥ 14000																
≥ 12000																
≥ 10000																
≥ 9000																
≥ 8000																
≥ 7000																
≥ 6000																
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≥ 3000																
≥ 2500																
≥ 2000																
≥ 1800																
≥ 1500																
≥ 1200																
≥ 1000																
≥ 900																
≥ 800																
≥ 700																
≥ 600																
≥ 500																
≥ 400																
≥ 300																
≥ 200																
≥ 100																
≥ 0																

TOTAL NUMBER OF OBSERVATIONS

DISTANCE IN METERS

# CEILING VERSUS VISIBILITY

STATION

STATION NAME

YEARS

MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE  
(FROM HOURLY OBSERVATIONS)

CLAS. 1-57

CEILING FEET	VISIBILITY - STATUTE MILES															
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2.5	≥ 2	≥ 1.5	≥ 1	≥ .5	≥ .4	≥ .3	≥ .25	≥ .2	≥ .15	≥ .1
NO CEILING																
≥ 20000																
IV 18000																
IV 16000																
IV 14000																
IV 12000																
IV 10000																
IV 9000																
IV 8000																
IV 7000																
IV 6000																
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IV 800																
IV 700																
IV 600																
IV 500																
IV 400																
IV 300																
IV 200																
IV 100																
IV 0																

TOTAL NUMBER OF OBSERVATIONS

CLASSIFICATION

# CEILING VERSUS VISIBILITY

PERCENTAGE FREQUENCY OF OCCURRENCE  
(FROM HOURLY OBSERVATIONS)

CEILING FEET	VISIBILITY, STATUTE MILES															
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2.5	≥ 2	≥ 1.5	≥ 1	≥ .5	≥ .4	≥ .3	≥ .25	≥ .2	≥ .15	≥ .1
NO CEILING																
≥ 20000																
≥ 18000																
≥ 16000																
≥ 14000																
≥ 12000																
≥ 10000																
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≥ 900																
≥ 800																
≥ 700																
≥ 600																
≥ 500																
≥ 400																
≥ 300																
≥ 200																
≥ 100																
≥ 0																

TOTAL NUMBER OF OBSERVATIONS

REPORT MADE AT

# CEILING VERSUS VISIBILITY

STATION

STATION NAME

YEARS

MONTH

## PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

CEILING FEET	VISIBILITY, STATUTE MILES															
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2.5	≥ 2	≥ 1.5	≥ 1	≥ .5	≥ .25	≥ .1	≥ .05	≥ .025	≥ .01	≥ 0
NO CEILING																
≥ 20000																
≥ 18000																
≥ 16000																
≥ 14000																
≥ 12000																
≥ 10000																
≥ 9000																
≥ 8000																
≥ 7000																
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≥ 1000																
≥ 900																
≥ 800																
≥ 700																
≥ 600																
≥ 500																
≥ 450																
≥ 400																
≥ 300																
≥ 200																
≥ 100																
≥ 0																

TOTAL NUMBER OF OBSERVATIONS

LOWEST OBSERVED



# CEILING VERSUS VISIBILITY

STATION

STATION NAME

YEARS

MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE  
(FROM HOURLY OBSERVATIONS)

CEILING FEET	VISIBILITY, STATUTE MILES															
	2.0	1.6	1.5	1.4	1.3	1.2	1.1	1.0	0.9	0.8	0.7	0.6	0.5	0.4	0.3	0.2
NO CEILING																
2.0000																
1.8000																
1.6000																
1.4000																
1.2000																
1.0000																
9000																
8000																
7000																
6000																
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700																
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500																
400																
300																
200																
100																
0																

TOTAL NUMBER OF OBSERVATIONS

DATE OF REPORT

# CEILING VERSUS VISIBILITY

STATION

STATION NAME

YEARS

PERCENTAGE FREQUENCY OF OCCURRENCE  
(FROM HOURLY OBSERVATIONS)

ELEVATION FEET	VISIBILITY - STATUTE MILES														
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2.5	≥ 2	≥ 1.5	≥ 1	≥ .5	≥ .25	≥ .15	≥ .1	≥ .05	≥ .01
NO. MISSING															
≥ 20000															
≥ 18000															
≥ 16000															
≥ 14000															
≥ 12000															
≥ 10000															
≥ 9000															
≥ 8000															
≥ 7000															
≥ 6000															
≥ 5000															
≥ 4500															
≥ 4000															
≥ 3500															
≥ 3000															
≥ 2500															
≥ 2000															
≥ 1500															
≥ 1000															
≥ 750															
≥ 500															
≥ 250															
≥ 100															
≥ 50															

TOTAL NUMBER OF TRIPLES

# CEILING VERSUS VISI

STATION

STATION NAME

YEARS

## PERCENTAGE FREQUENCY OF OCCURRENCE FROM HOURLY OBSERVATIONS

ELEVATION FEET	VISIBILITY STATUTE MILES											
	≥ 10	≥ 9	≥ 8	≥ 7	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2	≥ 1	≥ 1/2	≥ 1/4
NO CEILING												
≥ 2000												
≥ 1500												
≥ 1000												
≥ 750												
≥ 500												
≥ 250												
≥ 100												
≥ 75												
≥ 50												
≥ 25												
≥ 15												
≥ 10												
≥ 7												
≥ 5												
≥ 3												
≥ 2												
≥ 1												
≥ 1/2												
≥ 1/4												
≥ 1/8												
≥ 1/16												
≥ 1/32												
≥ 1/64												
≥ 1/128												
≥ 1/256												
≥ 1/512												
≥ 1/1024												
≥ 1/2048												
≥ 1/4096												
≥ 1/8192												
≥ 1/16384												
≥ 1/32768												
≥ 1/65536												
≥ 1/131072												
≥ 1/262144												
≥ 1/524288												
≥ 1/1048576												
≥ 1/2097152												
≥ 1/4194304												
≥ 1/8388608												
≥ 1/16777216												
≥ 1/33554432												
≥ 1/67108864												
≥ 1/134217728												
≥ 1/268435456												
≥ 1/536870912												
≥ 1/1073741824												
≥ 1/2147483648												
≥ 1/4294967296												
≥ 1/8589934592												
≥ 1/17179869184												
≥ 1/34359738368												
≥ 1/68719476736												
≥ 1/137438953472												
≥ 1/274877906944												
≥ 1/549755813888												
≥ 1/1099511627776												
≥ 1/2199023255552												
≥ 1/4398046511104												
≥ 1/8796093022208												
≥ 1/17592186044416												
≥ 1/35184372088832												
≥ 1/70368744177664												
≥ 1/140737488355328												
≥ 1/281474976710656												
≥ 1/562949953421312												
≥ 1/1125899906842624												
≥ 1/2251799813685248												
≥ 1/4503599627370496												
≥ 1/9007199254740992												
≥ 1/18014398509481984												
≥ 1/36028797018963968												
≥ 1/72057594037927936												
≥ 1/144115188075855872												
≥ 1/288230376151711744												
≥ 1/576460752303423488												
≥ 1/1152921504606846976												
≥ 1/2305843009213693952												
≥ 1/4611686018427387904												
≥ 1/9223372036854775808												
≥ 1/18446744073709551616												
≥ 1/36893488147419103232												
≥ 1/73786976294838206464												
≥ 1/147573952589676412928												
≥ 1/295147905179352825856												
≥ 1/590295810358705651712												
≥ 1/1180591620717411303424												
≥ 1/2361183241434822606848												
≥ 1/4722366482869645213696												
≥ 1/9444732965739290427392												
≥ 1/18889465931478580854784												
≥ 1/37778931862957161709568												
≥ 1/75557863725914323419136												
≥ 1/151115727451828646838272												
≥ 1/302231454903657293676544												
≥ 1/604462909807314587353088												
≥ 1/1208925819614629174706176												
≥ 1/2417851639229258349412352												
≥ 1/4835703278458516698824704												
≥ 1/9671406556917033397649408												
≥ 1/19342813113834066795298816												
≥ 1/38685626227668133590597632												
≥ 1/77371252455336267181195264												
≥ 1/154742504910672534362390528												
≥ 1/309485009821345068724781056												
≥ 1/618970019642690137449562112												
≥ 1/1237940039285380274899124224												
≥ 1/2475880078570760549798248448												
≥ 1/4951760157141521099596496896												
≥ 1/9903520314283042199192993792												
≥ 1/19807040628566084398385987584												
≥ 1/39614081257132168796771975168												
≥ 1/79228162514264337593543950336												
≥ 1/158456325028528675187087900672												
≥ 1/316912650057057350374175801344												
≥ 1/633825300114114700748351602688												
≥ 1/1267650600228229401496703205376												
≥ 1/2535301200456458802993406410752												
≥ 1/5070602400912917605986812821504												
≥ 1/10141204801825835211973625643008												
≥ 1/20282409603651670423947251286016												
≥ 1/40564819207303340847894502572032												
≥ 1/81129638414606681695789005144064												
≥ 1/162259276829213363391578010288128												
≥ 1/324518553658426726783156020576256												
≥ 1/649037107316853453566312041152512												
≥ 1/1298074214633706907132624082305024												
≥ 1/2596148429267413814265248164610048												
≥ 1/5192296858534827628530496329220096												
≥ 1/10384593717069655257060992658440192												
≥ 1/20769187434139310514121985316880384												
≥ 1/41538374868278621028243970633760768												
≥ 1/83076749736557242056487941267521536												
≥ 1/166153499473114484112975882535043072												
≥ 1/332306998946228968225951765070086144												
≥ 1/664613997892457936451903530140172288												
≥ 1/1329227995784915872903807060280344576												
≥ 1/2658455991569831745807614120560689152												
≥ 1/5316911983139663491615228241121378304												
≥ 1/10633823966279326983230456482242756608												
≥ 1/21267647932558653966460912964485513216												
≥ 1/42535295865117307932921825928971026432												
≥ 1/85070591730234615865843651857942052864												
≥ 1/170141183460469231731687303715884105728												
≥ 1/340282366920938463463374607431768211456												
≥ 1/680564733841876926926749214863536422912												
≥ 1/1361129467683753853853498429727072845824												
≥ 1/2722258935367507707706996859454145691648												

# CEILING VERSUS VISIBILITY

STATION

STATION NAME

YEARS

MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE  
(FROM HOURLY OBSERVATIONS)

HOURS

CEILING FEET	VISIBILITY, STATUTE MILES															
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2.5	≥ 2	≥ 1.5	≥ 1.0	≥ .5	≥ .3	≥ .2	≥ .1	≥ .05	≥ .02	≥ .01
NO CEILING																
≥ 20000																
≥ 18000																
≥ 16000																
≥ 14000																
≥ 12000																
≥ 10000																
≥ 9000																
≥ 8000																
≥ 7000																
≥ 6000																
≥ 5000																
≥ 4500																
≥ 4000																
≥ 3500																
≥ 3000																
≥ 2500																
≥ 2000																
≥ 1800																
≥ 1600																
≥ 1400																
≥ 1200																
≥ 1000																
≥ 900																
≥ 800																
≥ 700																
≥ 600																
≥ 500																
≥ 400																
≥ 300																
≥ 200																
≥ 100																
≥ 0																

TOTAL NUMBER OF OBSERVATIONS

# CEILING VERSUS VISIBILITY

STATION

STATION NAME

YEARS

MONTH

## PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

HEIGHT

CEILING FEET	VISIBILITY, STATUTE MILES															
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2½	≥ 2	≥ 1½	≥ 1	≥ ¾	≥ ½	≥ ¼	≥ ⅛	≥ 1/16	≥ 1/32	≥ 1/64
NO FILLING																
≥ 20000																
18000																
16000																
14000																
12000																
10000																
9000																
8000																
7000																
6000																
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4500																
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1800																
1500																
1200																
1000																
900																
800																
700																
600																
500																
400																
300																
200																
100																
0																

TOTAL NUMBER OF OBSERVATIONS

DATE OF REPORT

# CEILING VERSUS VISIBILITY

NAME OF STATION: \_\_\_\_\_

STATION

STATION NAME

YEARS

MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE  
(FROM HOURLY OBSERVATIONS)

HOURS

CEILING FEET	VISIBILITY, STATUTE MILES														
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2½	≥ 2	≥ 1½	≥ 1	≥ ½	≥ ¼	≥ 1/8	≥ 1/16	≥ 1/32	≥ 0
NO CEILING															
≥ 20000															
≥ 18000															
≥ 16000															
≥ 14000															
≥ 12000															
≥ 10000															
≥ 9000															
≥ 8000															
≥ 7000															
≥ 6000															
≥ 5000															
≥ 4500															
≥ 4000															
≥ 3500															
≥ 3000															
≥ 2500															
≥ 2000															
≥ 1800															
≥ 1500															
≥ 1200															
≥ 1000															
≥ 900															
≥ 800															
≥ 700															
≥ 600															
≥ 500															
≥ 400															
≥ 300															
≥ 200															
≥ 100															
≥ 0															

TOTAL NUMBER OF OBSERVATIONS

PREPARED BY: \_\_\_\_\_

[illegible]

STATION NAME

TABLE 1

## Mania

1999, 2000, 2001, 2002, 2003, 2004, 2005, 2006, 2007, 2008, 2009, 2010, 2011, 2012, 2013, 2014, 2015, 2016, 2017, 2018, 2019, 2020, 2021, 2022, 2023, 2024, 2025, 2026, 2027, 2028, 2029, 2030, 2031, 2032, 2033, 2034, 2035, 2036, 2037, 2038, 2039, 2040, 2041, 2042, 2043, 2044, 2045, 2046, 2047, 2048, 2049, 2050, 2051, 2052, 2053, 2054, 2055, 2056, 2057, 2058, 2059, 2060, 2061, 2062, 2063, 2064, 2065, 2066, 2067, 2068, 2069, 2070, 2071, 2072, 2073, 2074, 2075, 2076, 2077, 2078, 2079, 2080, 2081, 2082, 2083, 2084, 2085, 2086, 2087, 2088, 2089, 2090, 2091, 2092, 2093, 2094, 2095, 2096, 2097, 2098, 2099, 2100, 2101, 2102, 2103, 2104, 2105, 2106, 2107, 2108, 2109, 2110, 2111, 2112, 2113, 2114, 2115, 2116, 2117, 2118, 2119, 2120, 2121, 2122, 2123, 2124, 2125, 2126, 2127, 2128, 2129, 2130, 2131, 2132, 2133, 2134, 2135, 2136, 2137, 2138, 2139, 2140, 2141, 2142, 2143, 2144, 2145, 2146, 2147, 2148, 2149, 2150, 2151, 2152, 2153, 2154, 2155, 2156, 2157, 2158, 2159, 2160, 2161, 2162, 2163, 2164, 2165, 2166, 2167, 2168, 2169, 2170, 2171, 2172, 2173, 2174, 2175, 2176, 2177, 2178, 2179, 2180, 2181, 2182, 2183, 2184, 2185, 2186, 2187, 2188, 2189, 2190, 2191, 2192, 2193, 2194, 2195, 2196, 2197, 2198, 2199, 2200, 2201, 2202, 2203, 2204, 2205, 2206, 2207, 2208, 2209, 2210, 2211, 2212, 2213, 2214, 2215, 2216, 2217, 2218, 2219, 2220, 2221, 2222, 2223, 2224, 2225, 2226, 2227, 2228, 2229, 2230, 2231, 2232, 2233, 2234, 2235, 2236, 2237, 2238, 2239, 2240, 2241, 2242, 2243, 2244, 2245, 2246, 2247, 2248, 2249, 2250, 2251, 2252, 2253, 2254, 2255, 2256, 2257, 2258, 2259, 2260, 2261, 2262, 2263, 2264, 2265, 2266, 2267, 2268, 2269, 2270, 2271, 2272, 2273, 2274, 2275, 2276, 2277, 2278, 2279, 2280, 2281, 2282, 2283, 2284, 2285, 2286, 2287, 2288, 2289, 2290, 2291, 2292, 2293, 2294, 2295, 2296, 2297, 2298, 2299, 2300, 2301, 2302, 2303, 2304, 2305, 2306, 2307, 2308, 2309, 2310, 2311, 2312, 2313, 2314, 2315, 2316, 2317, 2318, 2319, 2320, 2321, 2322, 2323, 2324, 2325, 2326, 2327, 2328, 2329, 2330, 2331, 2332, 2333, 2334, 2335, 2336, 2337, 2338, 2339, 2340, 2341, 2342, 2343, 2344, 2345, 2346, 2347, 2348, 2349, 2350, 2351, 2352, 2353, 2354, 2355, 2356, 2357, 2358, 2359, 2360, 2361, 2362, 2363, 2364, 2365, 2366, 2367, 2368, 2369, 2370, 2371, 2372, 2373, 2374, 2375, 2376, 2377, 2378, 2379, 2380, 2381, 2382, 2383, 2384, 2385, 2386, 2387, 2388, 2389, 2390, 2391, 2392, 2393, 2394, 2395, 2396, 2397, 2398, 2399, 2400, 2401, 2402, 2403, 2404, 2405, 2406, 2407, 2408, 2409, 2410, 2411, 2412, 2413, 2414, 2415, 2416, 2417, 2418, 2419, 2420, 2421, 2422, 2423, 2424, 2425, 2426, 2427, 2428, 2429, 2430, 2431, 2432, 2433, 2434, 2435, 2436, 2437, 2438, 2439, 2440, 2441, 2442, 2443, 2444, 2445, 2446, 2447, 2448, 2449, 2450, 2451, 2452, 2453, 2454, 2455, 2456, 2457, 2458, 2459, 2460, 2461, 2462, 2463, 2464, 2465, 2466, 2467, 2468, 2469, 2470, 2471, 2472, 2473, 2474, 2475, 2476, 2477, 2478, 2479, 2480, 2481, 2482, 2483, 2484, 2485, 2486, 2487, 2488, 2489, 2490, 2491, 2492, 2493, 2494, 2495, 2496, 2497, 2498, 2499, 2500, 2501, 2502, 2503, 2504, 2505, 2506, 2507, 2508, 2509, 2510, 2511, 2512, 2513, 2514, 2515, 2516, 2517, 2518, 2519, 2520, 2521, 2522, 2523, 2524, 2525, 2526, 2527, 2528, 2529, 2530, 2531, 2532, 2533, 2534, 2535, 2536, 2537, 2538, 2539, 2540, 2541, 2542, 2543, 2544, 2545, 2546, 2547, 2548, 2549, 2550, 2551, 2552, 2553, 2554, 2555, 2556, 2557, 2558, 2559, 2560, 2561, 2562, 2563, 2564, 2565, 2566, 2567, 2568, 2569, 2570, 2571, 2572, 2573, 2574, 2575, 2576, 2577, 2578, 2579, 2580, 2581, 2582, 2583, 2584, 2585, 2586, 2587, 2588, 2589, 2590, 2591, 2592, 2593, 2594, 2595, 2596, 2597, 2598, 2599, 2600, 2601, 2602, 2603, 2604, 2605, 2606, 2607, 2608, 2609, 2610, 2611, 2612, 2613, 2614, 2615, 2616, 2617, 2618, 2619, 2620, 2621, 2622, 2623, 2624, 2625, 2626, 2627, 2628, 2629, 2630, 2631, 2632, 2633, 2634, 2635, 2636, 2637, 2638, 2639, 2640, 2641, 2642, 2643, 2644, 2645, 2646, 2647, 2648, 2649, 2650, 2651, 2652, 2653, 2654, 2655, 2656, 2657, 2658, 2659, 2660, 2661, 2662, 2663, 2664, 2665, 2666, 2667, 2668, 2669, 2670, 2671, 2672, 2673, 2674, 2675, 2676, 2677, 2678, 2679, 2680, 26

TOTAL NUMBER OF OBSERVATIONS
$$11. \frac{1}{2} \leq x \leq \frac{3}{2} \quad \text{and} \quad x^2 \leq 1 \quad \text{and} \quad x^2 \geq 0$$

# CEILING VERSUS VISIBILITY

NAME OF STATION \_\_\_\_\_

STATION \_\_\_\_\_

STATION NAME \_\_\_\_\_

YEARS \_\_\_\_\_

MONTH \_\_\_\_\_

## PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

NUMBER OF YEARS \_\_\_\_\_

CEILING FEET	VISIBILITY, STATUTE MILES															
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2½	≥ 2	≥ 1½	≥ 1¼	≥ 1	≥ ¾	≥ ½	≥ ¼	≥ 1/8	≥ 1/16	≥ 0
NO CEILING																
≥ 20000																
≥ 18000																
≥ 16000																
≥ 14000																
≥ 12000																
≥ 10000																
≥ 9000																
≥ 8000																
≥ 7000																
≥ 6000																
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≥ 900																
≥ 800																
≥ 700																
≥ 600																
≥ 500																
≥ 400																
≥ 300																
≥ 200																
≥ 100																
≥ 0																

TOTAL NUMBER OF OBSERVATIONS \_\_\_\_\_

DIVISION OF METEOROLOGY



NAVAL WEATHER SERVICE FORM NO. 10-1 (REV. 1-57)

# CEILING VERSUS VISIBILITY

STATION

STATION NAME

YEARS

MONTH

## PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

NO. OF

CEILING FEET	VISIBILITY, STATUTE MILES															
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2½	≥ 2	≥ 1½	≥ 1	≥ 1	≥ ½	≥ ½	≥ ¼	≥ ¼	≥ 5/16	≥ 1/8
NO CEILING																
≥ 20000																
18000																
16000																
14000																
12000																
10000																
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700																
600																
500																
400																
300																
200																
100																
0																

TOTAL NUMBER OF OBSERVATIONS

DATA FOR THIS MONTH

As a result, the model is able to capture the nonlinear relationship between the variables and the response variable.

## STATION

STATION NAME

71432

## NOTES

22.11.02

PERCENTAGE FREQUENCY OF OCCURRENCE  
(FROM HOURLY OBSERVATIONS)

[illegible]

TOTAL NUMBER OF OBSERVATIONS

1994, 1995, 1996, 1997, 1998, 1999, 2000, 2001, 2002, 2003, 2004, 2005, 2006, 2007, 2008, 2009, 2010, 2011, 2012, 2013, 2014, 2015, 2016, 2017, 2018, 2019, 2020, 2021, 2022, 2023, 2024, 2025, 2026, 2027, 2028, 2029, 2030, 2031, 2032, 2033, 2034, 2035, 2036, 2037, 2038, 2039, 2040, 2041, 2042, 2043, 2044, 2045, 2046, 2047, 2048, 2049, 2050, 2051, 2052, 2053, 2054, 2055, 2056, 2057, 2058, 2059, 2060, 2061, 2062, 2063, 2064, 2065, 2066, 2067, 2068, 2069, 2070, 2071, 2072, 2073, 2074, 2075, 2076, 2077, 2078, 2079, 2080, 2081, 2082, 2083, 2084, 2085, 2086, 2087, 2088, 2089, 2090, 2091, 2092, 2093, 2094, 2095, 2096, 2097, 2098, 2099, 2100, 2101, 2102, 2103, 2104, 2105, 2106, 2107, 2108, 2109, 2110, 2111, 2112, 2113, 2114, 2115, 2116, 2117, 2118, 2119, 2120, 2121, 2122, 2123, 2124, 2125, 2126, 2127, 2128, 2129, 2130, 2131, 2132, 2133, 2134, 2135, 2136, 2137, 2138, 2139, 2140, 2141, 2142, 2143, 2144, 2145, 2146, 2147, 2148, 2149, 2150, 2151, 2152, 2153, 2154, 2155, 2156, 2157, 2158, 2159, 2160, 2161, 2162, 2163, 2164, 2165, 2166, 2167, 2168, 2169, 2170, 2171, 2172, 2173, 2174, 2175, 2176, 2177, 2178, 2179, 2180, 2181, 2182, 2183, 2184, 2185, 2186, 2187, 2188, 2189, 2190, 2191, 2192, 2193, 2194, 2195, 2196, 2197, 2198, 2199, 2200, 2201, 2202, 2203, 2204, 2205, 2206, 2207, 2208, 2209, 2210, 2211, 2212, 2213, 2214, 2215, 2216, 2217, 2218, 2219, 2220, 2221, 2222, 2223, 2224, 2225, 2226, 2227, 2228, 2229, 2230, 2231, 2232, 2233, 2234, 2235, 2236, 2237, 2238, 2239, 2240, 2241, 2242, 2243, 2244, 2245, 2246, 2247, 2248, 2249, 2250, 2251, 2252, 2253, 2254, 2255, 2256, 2257, 2258, 2259, 2260, 2261, 2262, 2263, 2264, 2265, 2266, 2267, 2268, 2269, 2270, 2271, 2272, 2273, 2274, 2275, 2276, 2277, 2278, 2279, 2280, 2281, 2282, 2283, 2284, 2285, 2286, 2287, 2288, 2289, 2290, 2291, 2292, 2293, 2294, 2295, 2296, 2297, 2298, 2299, 2300, 2301, 2302, 2303, 2304, 2305, 2306, 2307, 2308, 2309, 2310, 2311, 2312, 2313, 2314, 2315, 2316, 2317, 2318, 2319, 2320, 2321, 2322, 2323, 2324, 2325, 2326, 2327, 2328, 2329, 2330, 2331, 2332, 2333, 2334, 2335, 2336, 2337, 2338, 2339, 2340, 2341, 2342, 2343, 2344, 2345, 2346, 2347, 2348, 2349, 2350, 2351, 2352, 2353, 2354, 2355, 2356, 2357, 2358, 2359, 2360, 2361, 2362, 2363, 2364, 2365, 2366, 2367, 2368, 2369, 2370, 2371, 2372, 2373, 2374, 2375, 2376, 2377, 2378, 2379, 2380, 2381, 2382, 2383, 2384, 2385, 2386, 2387, 2388, 2389, 2390, 2391, 2392, 2393, 2394, 2395, 2396, 2397, 2398, 2399, 2400, 2401, 2402, 2403, 2404, 2405, 2406, 2407, 2408, 2409, 2410, 2411, 2412, 2413, 2414, 2415, 2416, 2417, 2418, 2419, 2420, 2421, 2422, 2423, 2424, 2425, 2426, 2427, 2428, 2429, 2430, 2431, 2432, 2433, 2434, 2435, 2436, 2437, 2438, 2439, 2440, 2441, 2442, 2443, 2444, 2445, 2446, 2447, 2448, 2449, 2450, 2451, 2452, 2453, 2454, 2455, 2456, 2457, 2458, 2459, 2460, 2461, 2462, 2463, 2464, 2465, 2466, 2467, 2468, 2469, 2470, 2471, 2472, 2473, 2474, 2475, 2476, 2477, 2478, 2479, 2480, 2481, 2482, 2483, 2484, 2485, 2486, 2487, 2488, 2489, 2490, 2491, 2492, 2493, 2494, 2495, 2496, 2497, 2498, 2499, 2500, 2501, 2502, 2503, 2504, 2505, 2506, 2507, 2508, 2509, 2510, 2511, 2512, 2513, 2514, 2515, 2516, 2517, 2518, 2519, 2520, 2521, 2522, 2523, 2524, 2525, 2526, 2527, 2528, 2529, 2530, 2531, 2532, 2533, 2534, 2535, 2536, 2537, 2538, 2539, 2540, 2541, 2542, 2543, 2544, 2545, 2546, 2547, 2548, 2549, 2550, 2551, 2552, 2553, 2554, 2555, 2556, 2557, 2558, 2559, 2560, 2561, 2562, 2563, 2564, 2565, 2566, 2567, 2568, 2569, 2570, 2571, 2572, 2573, 2574, 2575, 2576, 2577, 2578, 2579, 2580, 2581, 2582, 2583, 2584, 2585, 2586, 2587, 2588, 2589, 2590, 2591, 2592, 2593, 2594, 2595, 2596, 2597, 2598, 2599, 2600, 2601, 2602, 2603, 2604, 2605, 2606, 2607, 2608, 2609, 2610, 2611, 2612, 2613, 2614, 2615, 2616, 2617, 2618, 2619, 2620, 2621, 2622, 2623, 2624, 2625, 2626, 2627, 2628, 2629, 2630, 2631, 2632, 2633, 2634, 2635, 2636, 2637, 2638, 2639, 2640, 2641, 2642, 2643, 2644, 2645, 2646, 2647, 2648, 2649, 2650, 2651, 2652, 2653, 2654, 2655, 2656, 2657, 2658, 2659, 2660, 2661, 2662, 2663, 2664, 2665, 2666, 2667, 2668, 2669, 2670, 2671, 2672, 2673, 2674, 2675, 26

NAVAL WEATHER SERVICE

# CEILING VERSUS VISIBILITY

STATION

STATION NAME

YEAR

MONTH

## PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

CEILING FEET	VISIBILITY - STATUTE MILES															
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2½	≥ 2	≥ 1½	≥ 1	≥ 1	≥ ½	≥ ¼	≥ ¼	≥ ¼	≥ 5/16	≥ 1/8
NO CEILING																
≥ 20000																
IV 18000																
IV 16000																
IV 14000																
IV 12000																
IV 10000																
IV 9000																
IV 8000																
IV 7000																
≥ 6000																
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IV 2500																
IV 2000																
IV 1500																
IV 1200																
IV 1000																
IV 900																
IV 800																
IV 700																
IV 600																
IV 500																
IV 400																
IV 300																
IV 200																
IV 100																
IV 0																

TOTAL NUMBER OF OBSERVATIONS

OFFICIAL STATEMENT

# CEILING VERSUS VISIBILITY

STATION

STATION NAME

YEARS

MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE  
(FROM HOURLY OBSERVATIONS)

DATE

CEILING FEET	VISIBILITY STATUTE MILES															
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2½	≥ 2	≥ 1½	≥ 1¼	≥ 1	≥ ¾	≥ ½	≥ ¼	≥ 1/8	≥ 1/16	≥ 1/32
NO CEILING																
≥ 20000																
IV 18000																
IV 16000																
IV 14000																
IV 12000																
IV 10000																
IV 9000																
IV 8000																
IV 7000																
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IV 400																
IV 300																
IV 200																
IV 100																
IV 0																

TOTAL NUMBER OF OBSERVATIONS

DATA ELEMENT

# CEILING VERSUS VISIBILITY

STATION

STATION NAME

YEARS

DATA

## PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

CEILING FEET	VISIBILITY - STATUTE MILES													
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2.5	≥ 2	≥ 1.5	≥ 1	≥ .5	≥ .4	≥ .3	≥ .25	≥ .2
NO CEILING														
≥ 20000														
≥ 18000														
≥ 16000														
≥ 14000														
≥ 12000														
≥ 10000														
≥ 9000														
≥ 8000														
≥ 7000														
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≥ 800														
≥ 700														
≥ 600														
≥ 500														
≥ 400														
≥ 300														
≥ 200														
≥ 100														
≥ 0														

TOTAL NUMBER OF OBSERVATIONS

ANALYST'S NAME

# CEILING VERSUS VISIBILITY

STATION

STATION NAME

YEARS

MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE  
FROM HOURLY OBSERVATIONS.

NO. CEILING FEET	VISIBILITY STATUTE MILES													
	> 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2.5	≥ 2	≥ 1.5	≥ 1	≥ .5	≥ .25	≥ .1	≥ .05	≥ .01
≥ 20000														
≥ 18000														
≥ 16000														
≥ 14000														
≥ 12000														
≥ 10000														
≥ 9000														
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≥ 1000														
≥ 900														
≥ 800														
≥ 700														
≥ 600														
≥ 500														
≥ 400														
≥ 300														
≥ 200														
≥ 100														
≥ 0														

TOTAL NUMBER OF OBSERVATIONS

# CEILING VERSUS VISIBILITY

STATION

STATION NAME

DATE

TIME

## PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

CEILING FEET	VISIBILITY - STATUTE MILES															
	1/2	3/4	1	2	3	4	5	6	7	8	9	10	11	12	13	14
NO. OF OBS.																
2 20000																
1 18400																
1 16800																
1 15200																
1 13600																
1 12000																
1 10400																
1 8800																
1 7200																
1 5600																
1 4000																
1 2400																
1 800																
1 0																
2 19200																
2 17600																
2 16000																
2 14400																
2 12800																
2 11200																
2 9600																
2 8000																
2 6400																
2 4800																
2 3200																
2 1600																
2 0																

TOTAL NUMBER OF OBSERVATIONS

1. *Chlorophyll a* (Chl *a*)

5. 4. 2014

• • •

$$^{\circ} \text{C. } \Delta H_{\text{sub}} = 20.9 \text{ kcal/mole} \quad \Delta H_{\text{vap}} = 10.2 \text{ kcal/mole}$$

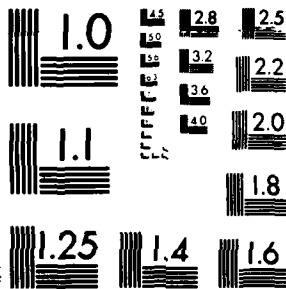


SUMMARY OF METEOROLOGICAL OBSERVATIONS SURFACE (SMOS)  
NEW RIVER NORTH CAROLINA(U) NAVAL OCEANOGRAPHY COMMAND  
DETACHMENT ASHEVILLE NC AUG 84

314

F/G 4/2

NL



MICROCOPY RESOLUTION TEST CHART  
NATIONAL BUREAU OF STANDARDS-1963-A

NAVAL WEATHER SERVICE DETACHMENT, ASHEVILLE, NC

# CEILING VERSUS VISIBILITY

STATION

STATION NAME

YEARS

MONTH

## PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

HOURLY

CEILING (FEET)	VISIBILITY (STATUTE MILES)															
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2½	≥ 2	≥ 1½	≥ 1¼	≥ 1	≥ ¾	≥ ½	≥ ¼	≥ 5-16	≥ 1	≥ 0
NO CEILING																
≥ 20000																
IV 18000																
IV 16000																
IV 14000																
IV 12000																
IV 10000																
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IV 800																
IV 700																
IV 600																
IV 500																
IV 400																
IV 300																
IV 200																
IV 100																
IV 0																

TOTAL NUMBER OF OBSERVATIONS

DIRNAVOCEANMET SMOS

NAVAL WEATHER SERVICE DETACHMENT, ASHEVILLE, NC

# CEILING VERSUS VISIBILITY

STATION

STATION NAME

YEARS

MOUTH

## PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

HOURLY (L.S.T.)

CEILING (FEET)	VISIBILITY (STATUTE MILES)															
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2½	≥ 2	≥ 1½	≥ 1¼	≥ 1	≥ ¾	≥ ½	≥ ¼	≥ 5/16	≥ 1/8	≥ 0
NO CEILING																
≥ 20000																
18000																
16000																
14000																
12000																
10000																
9000																
8000																
7000																
6000																
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600																
500																
400																
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200																
100																
0																

TOTAL NUMBER OF OBSERVATIONS

DIRNAVOCEANMET SMOS

NAVAL WEATHER SERVICE DETACHMENT, ASHEVILLE, NC

# CEILING VERSUS VISIBILITY

STATION

STATION NAME

YEARS

MONTH

## PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

HOURLY

CEILING (FEET)	VISIBILITY (STATUTE MILES)															
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2½	≥ 2	≥ 1½	≥ 1¼	≥ 1	≥ ¾	≥ ½	≥ ¼	≥ 1/8	≥ 5/16	≥ 0
NO CEILING	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
≥ 20000	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
IV 18000	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
IV 16000	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
IV 14000	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
IV 12000	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
IV 10000	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
IV 9000	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
IV 8000	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
IV 7000	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
IV 6000	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
IV 5000	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
IV 4500	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
IV 4000	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
IV 3500	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
IV 3000	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
IV 2500	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
IV 2000	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
IV 1800	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
IV 1500	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
IV 1200	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
IV 1000	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
IV 900	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
IV 800	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
IV 700	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
IV 600	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
IV 500	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
IV 400	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
IV 300	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
IV 200	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
IV 100	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
IV 0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

TOTAL NUMBER OF OBSERVATIONS

DIRNAVOCEANMET SMOS

NAVAL WEATHER SERVICE DETACHMENT, ASHEVILLE, NC

# CEILING VERSUS VISIBILITY

STATION

STATION NAME

YEARS

MONTH

## PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

HOURS - L E T

CEILING FEET	VISIBILITY (STATUTE MILES)															
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2½	≥ 2	≥ 1½	≥ 1¼	≥ 1	≥ ¾	≥ ½	≥ ¼	≥ 5/16	≥ ¼	≥ 0
NO CEILING																
≥ 20000																
18000																
16000																
14000																
12000																
10000																
9000																
8000																
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TOTAL NUMBER OF OBSERVATIONS

DIRNAVOCEANMET SMOS

NAVAL WEATHER SERVICE DETACHMENT, ASHEVILLE, NC

# CEILING VERSUS VISIBILITY

STATION

STATION NAME

YEARS

MONTH

## PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

HOURLY

CEILING (FEET)	VISIBILITY (STATUTE MILES)															
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2½	≥ 2	≥ 1½	≥ 1¼	≥ 1	≥ ¾	≥ ½	≥ ¼	≥ 5/16	≥ 1/8	≥ 0
NO CEILING																
IV 20000																
IV 18000																
IV 16000																
IV 14000																
IV 12000																
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IV 400																
IV 300																
IV 200																
IV 100																
IV 0																

TOTAL NUMBER OF OBSERVATIONS

DIRNAVOCEANMET SMOS

NAVAL WEATHER SERVICE DETACHMENT, ASHEVILLE, NC

# CEILING VERSUS VISIBILITY

STATION

STATION NAME

YEARS

MONTH

## PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

HOURLY

CEILING (FEET)	VISIBILITY (STATUTE MILES)															
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2½	≥ 2	≥ 1½	≥ 1¼	≥ 1	≥ ¾	≥ ½	≥ ¼	≥ 5/16	≥ 1/8	≥ 0
NO CEILING																
≥ 20000																
18000																
16000																
14000																
12000																
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TOTAL NUMBER OF OBSERVATIONS

DIRNAVCEANMET SMOS



NAVAL WEATHER SERVICE DETACHMENT, ASHEVILLE, NC

# CEILING VERSUS VISIBILITY

STATION

STATION NAME

YEARS

MONTH

## PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

HOURLY

CEILING (FEET)	VISIBILITY (STATUTE MILES)															
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2½	≥ 2	≥ 1½	≥ 1¼	≥ 1	≥ ¾	≥ ½	≥ ¼	≥ 5-16	≥ 1	≥ 0
NO CEILING																
≥ 20000																
18000																
16000																
14000																
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TOTAL NUMBER OF OBSERVATIONS

DIRNAVOCEANMET SMOS

NAVAL WEATHER SERVICE DETACHMENT ASHEVILLE, NC

# CEILING VERSUS VISIBILITY

STATION

STATION NAME

YEARS

MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE  
(FROM HOURLY OBSERVATIONS)

1  
HOURS L E T

CEILING (FEET)	VISIBILITY (STATUTE MILES)															
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2½	≥ 2	≥ 1½	≥ 1¼	≥ 1	≥ ¾	≥ ½	≥ ¼	≥ 5/16	≥ 1/8	≥ 0
NO CEILING																
IV 20000																
IV 18000																
IV 16000																
IV 14000																
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IV 200																
IV 100																
IV 0																

TOTAL NUMBER OF OBSERVATIONS

DIRNAVOCEANMET SMOS

NAVAL WEATHER SERVICE DETACHMENT, ASHVILLE, NC

# CEILING VERSUS VISIBILITY

STATION

STATION NAME

YEARS

MONTH

## PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

HOURLY

CEILING (FEET)	VISIBILITY (STATUTE MILES)														
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2½	≥ 2	≥ 1½	≥ 1¼	≥ 1	≥ ¾	≥ ½	≥ ¼	≥ 5/16	≥ 0
NO CEILING															
IV 20000															
IV 18000															
IV 16000															
IV 14000															
IV 12000															
IV 10000															
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IV 100															
IV 0															

TOTAL NUMBER OF OBSERVATIONS

DIRNAVUCEANMET SMOS

NAVAL WEATHER SERVICE DETACHMENT, ASHEVILLE, NC

# CEILING VERSUS VISIBILITY

STATION

STATION NAME

YEARS

MONTH

## PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

HOURLY LST

CEILING (FEET)	VISIBILITY (STATUTE MILES)															
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2½	≥ 2	≥ 1½	≥ 1¼	≥ 1	≥ ¾	≥ ½	≥ ¼	≥ 5-10	≥ ¼	≥ 0
NO CEILING																
IV 20000																
IV 18000																
IV 16000																
IV 14000																
IV 12000																
IV 10000																
IV 9000																
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IV 200																
IV 100																
IV 0																

TOTAL NUMBER OF OBSERVATIONS

DIRNAVOCEAN MET SMOS

NAVAL WEATHER SERVICE DETACHMENT, ASHEVILLE, NC

# CEILING VERSUS VISIBILITY

STATION

STATION NAME

YEARS

MONTH

## PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

HOURLY

CEILING (FEET)	VISIBILITY (STATUTE MILES)														
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2 1/2	≥ 2	≥ 1 1/2	≥ 1 1/4	≥ 1	≥ 3/4	≥ 1/2	≥ 1/4	≥ 1/8	≥ 0
NO CEILING															
≥ 20000															
IV 18000															
IV 16000															
IV 14000															
IV 12000															
IV 10000															
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IV 300															
IV 200															
IV 100															
IV 0															

TOTAL NUMBER OF OBSERVATIONS

DIPNAVJCEANMET SMDS

NAVAL WEATHER SERVICE DETACHMENT, ARLIEVILLE, NC

# CEILING VERSUS VISIBILITY

STATION

STATION NAME

YEARS

MONTH

## PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

WZLRS 1-17

CEILING (FEET)	VISIBILITY (STATUTE MILES)														
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2½	≥ 2	≥ 1½	≥ 1	≥ ¾	≥ ½	≥ ¼	≥ 1/8	≥ 1/16	≥ 1/32
NO CEILING															
≥ 20000															
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0															

TOTAL NUMBER OF OBSERVATIONS

DIRNAVOCEANMET 5MUS

NAVAL WEATHER SERVICE DETACHMENT, ASPEN, CO. 10

# CEILING VERSUS VISIBILITY

STATION

STATION NAME

YEARS

MONTH

## PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

PERCENT

CEILING (FEET)	VISIBILITY (STATUTE MILES)															
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2½	≥ 2	≥ 1½	≥ 1¼	≥ 1	≥ ¾	≥ ½	≥ ¼	≥ 1/5	≥ 1/10	≥ 0
NO CEILING																
≥ 20000																
IV 18000																
IV 16000																
IV 14000																
IV 12000																
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IV 0																

TOTAL NUMBER OF OBSERVATIONS

DIPNAVOCEANMET 5005

NAVAL WEATHER SERVICE DETACHMENT, ASHEVILLE, NC

# CEILING VERSUS VISIBILITY

STATION

STATION NAME

YEARS

MONTH

## PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

HOURLY

CEILING (FEET)	VISIBILITY (STATUTE MILES)														
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2½	≥ 2	≥ 1½	≥ 1¼	≥ 1	≥ ¾	≥ ½	≥ ¼	≥ 0	≥ 0
NO CEILING															
≥ 20000															
18000															
16000															
14000															
12000															
10000															
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TOTAL NUMBER OF OBSERVATIONS

DIRNAVOCEANMET SMOS



NAVAL WEATHER SERVICE DETACHMENT, ASPEN, CO.

# CEILING VERSUS VISIBILITY

STATION

STATION NAME

YEARS

MONTH

## PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

HOURLY

CEILING (FEET)	VISIBILITY (STATUTE MILES)															
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2½	≥ 2	≥ 1½	≥ 1¼	≥ 1	≥ ¾	≥ ½	≥ ¼	≥ 1/8	≥ 0	≥ 0
NO CEILING																
≥ 20000																
IV 18000																
IV 16000																
IV 14000																
IV 12000																
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IV 100																
IV 0																

TOTAL NUMBER OF OBSERVATIONS

DIPNAVOCEANMET 5405

NAVAL WEATHER SERVICE DETACHMENT, KURE, I. H.

# CEILING VERSUS VISIBILITY

STATION

STATION NAME

YEARS

MONTH

## PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

HOURLY

CEILING (FEET)	VISIBILITY (STATUTE MILES)															
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2½	≥ 2	≥ 1½	≥ 1¼	≥ 1	≥ ¾	≥ ½	≥ ¼	≥ 5/16	≥ 1/8	≥ 0
NO CEILING																
≥ 20000																
18000																
16000																
14000																
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TOTAL NUMBER OF OBSERVATIONS

DIRNAVOC/CEANMET SMOS

NAVAL WEATHER SERVICE DETACHMENT, ASHEVILLE, NC

# CEILING VERSUS VISIBILITY

STATION

STATION NAME

YEARS

MONTH

## PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

HOURLY

CEILING (FEET)	VISIBILITY (STATUTE MILES)															
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2½	≥ 2	≥ 1½	≥ 1¼	≥ 1	≥ ¾	≥ ½	≥ ¼	≥ 5/16	≥ 1/8	≥ 0
NO CEILING																
≥ 20000																
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TOTAL NUMBER OF OBSERVATIONS

DIRNAVCEANMET 5MOS

NAVAL WEATHER SERVICE DETACHMENT, ASHEVILLE, NC

# CEILING VERSUS VISIBILITY

STATION

STATION NAME

YEARS

MONTH

## PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

HOURS - L S T

CEILING (FEET)	VISIBILITY (STATUTE MILES)															
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2½	≥ 2	≥ 1½	≥ 1¼	≥ 1	≥ ¾	≥ ½	≥ ¼	≥ 5/16	≥ 1/8	≥ 0
NO CEILING																
≥ 20000																
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TOTAL NUMBER OF OBSERVATIONS

DIRNAVUCLANMET SMOS

NAVAL WEATHER SERVICE DETACHMENT, ASHEVILLE, NC

# CEILING VERSUS VISIBILITY

STATION

STATION NAME

YEARS

MONTH

## PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

HOURS LST

CEILING FEET	VISIBILITY (STATUTE MILES)															
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2½	≥ 2	≥ 1½	≥ 1¼	≥ 1	≥ ¾	≥ ½	≥ ¼	≥ 5/16	≥ 1/8	≥ 0
NO CEILING																
≥ 20000																
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TOTAL NUMBER OF OBSERVATIONS

DIRNAVOCEANMET SMOS

NAVAL WEATHER SERVICE DETACHMENT APOHEVILLE, HI

# CEILING VERSUS VISIBILITY

STATION

STATION NAME

YEARS

MONTH

## PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

HOURLY

CEILING (FEET)	VISIBILITY (STATUTE MILES)															
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2½	≥ 2	≥ 1½	≥ 1¼	≥ 1	≥ ¾	≥ ½	≥ ¼	≥ 3/16	≥ 1/8	≥ 0
NO CEILING																
IV 20000																
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TOTAL NUMBER OF OBSERVATIONS

DIRNAVJCEANMET SMOS

NAVAL WEATHER SERVICE DETACHMENT ASHEVILLE, NC

# CEILING VERSUS VISIBILITY

STATION

STATION NAME

YEARS

MOUTH

## PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

HOURLY L.S.

CEILING (FEET)	VISIBILITY (STATUTE MILES)														
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2½	≥ 2	≥ 1½	≥ 1¼	≥ 1	≥ ¾	≥ ½	≥ ¼	≥ 0	≥ 0
NO CEILING															
≥ 20000															
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TOTAL NUMBER OF OBSERVATIONS

UNUSAL CEANMET SMOS

NAVAL WEATHER SERVICE DETACHMENT WAREHOUSING

# CEILING VERSUS VISIBILITY

STATION

STATION NAME

YEARS

MONTH

## PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

HOURS

CEILING (FEET)	VISIBILITY (STATUTE MILES)															
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2½	≥ 2	≥ 1½	≥ 1¼	≥ 1	≥ ¾	≥ ½	≥ ¼	≥ 1/8	≥ 0	≥ 0
NO CEILING																
≥ 20000																
18000																
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TOTAL NUMBER OF OBSERVATIONS

APPROVAL SIGNATURE



NAVAL WEATHER SERVICE DETACHMENT WASHINGTON

# CEILING VERSUS VISIBILITY

STATION

STATION NAME

YEARS

MONTH

## PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

NO. OF OBS.

CEILING FEET	VISIBILITY (STATUTE MILES)															
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2½	≥ 2	≥ 1½	≥ 1	≥ ¾	≥ ½	≥ ¼	≥ 1/8	≥ 5/16	≥ 1/4	≥ 0
NO CEILING																
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TOTAL NUMBER OF OBSERVATIONS

OPNAV OCEANMET STOPS

NATIONAL WEATHER SERVICE - METEOROLOGICAL SERVICE

# CEILING VERSUS VISIBILITY

STATION

STATION NAME

YEARS

MONTH

## PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

HOURLY

CEILING FEET	VISIBILITY, STATUTE MILES															
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2½	≥ 2	≥ 1½	≥ 1	≥ ½	≥ ¼	≥ ⅛	≥ 1/16	≥ 1/32	≥ 1/64	≥ 0
NO CEILING																
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TOTAL NUMBER OF OBSERVATIONS

WIND DIRECTION AND SPEED

NAVAL WEATHER SERVICE FORM NO. 10-1 (REV. 1-64)

# CEILING VERSUS VISIBILITY

STATION

STATION NAME

YEARS

MONTH

## PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

CEILING FEET	VISIBILITY - STATUTE MILES														
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2½	≥ 2	≥ 1½	≥ 1¼	≥ 1	≥ ¾	≥ ½	≥ ¼	≥ 0.1	0
NO CEILING															
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TOTAL NUMBER OF OBSERVATIONS

FORM NO. 10-1 (REV. 1-64)

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TOTAL NUMBER OF OBSERVATIONS

DIPLOMA, CLAUDETTE 1915

NAVAL WEATHER SERVICE DETACHMENT, WASHINGTON

# CEILING VERSUS VISIBILITY

STATION

STATION NAME

YEARS

MONTH

## PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

HOURLY

CEILING FEET	VISIBILITY (STATUTE MILES)															
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2½	≥ 2	≥ 1½	≥ 1¼	≥ 1	≥ ¾	≥ ½	≥ ¼	≥ 1/16	≥ 0	≥ 0
NO CEILING																
≥ 20000																
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TOTAL NUMBER OF OBSERVATIONS

DIRNAVOCEANMET 5705

NAVY WEATHER SERVICE DETACHMENT, AHBVILLE, MS

# CEILING VERSUS VISIBILITY

STATION

STATION NAME

YEARS

MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE  
(FROM HOURLY OBSERVATIONS)

HOURLY S.T.

CEILING FEET	VISIBILITY (STATUTE MILES)															
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2½	≥ 2	≥ 1½	≥ 1	≥ ¾	≥ ½	≥ ¼	≥ 5/16	≥ 1/8	≥ 0	≥ 0
NO CEILING																
≥ 20000																
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TOTAL NUMBER OF OBSERVATIONS

DIRNAVJCEANMET SMOG

NATIONAL WEATHER SERVICE DETROIT, MICHIGAN

# CEILING VERSUS VISIBILITY

STATION

STATION NAME

YEARS

MONTH

## PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

NO. OF

CEILING FEET	VISIBILITY (STATUTE MILES)														
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2½	≥ 2	≥ 1½	≥ 1¼	≥ 1	≥ ¾	≥ ½	≥ ¼	≥ 0	≥ 0
NO CEILING															
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TOTAL NUMBER OF OBSERVATIONS

DIPNAVCEANMET 5MOS

NAVAL WEATHER SERVICE DETACHMENT, AHB, FLEET NO.

# CEILING VERSUS VISIBILITY

STATION

STATION NAME

YEARS

MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE  
(FROM HOURLY OBSERVATIONS)

HOURLY

CEILING FEET	VISIBILITY, STATUTE MILES													
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2½	≥ 2	≥ 1½	≥ 1¼	≥ 1	≥ ¾	≥ ½	≥ ¼	≥ 0
NO CEILING														
≥ 20000														
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TOTAL NUMBER OF OBSERVATIONS

DAKINAVILLEANMET



# CEILING VERSUS VISIBILITY

STATION

STATION NAME

YEARS

ROUTE

## PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

HOURLY DATA

CEILING FEET	VISIBILITY, STATUTE MILES															
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2½	≥ 2	≥ 1½	≥ 1	≥ ½	≥ ¼	≥ 1/8	≥ 1/16	≥ 1/32	≥ 1/64	≥ 1/128
NO. CEILING																
≥ 20000																
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TOTAL NUMBER OF OBSERVATIONS

OFFICIAL USE ONLY

NAME, ADDRESS, AND LOCATION OF STATION

# CEILING VERSUS VISIBILITY

STATION

STATION NAME

YEARS

MONTH

## PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

HOURLY

CEILING FEET	VISIBILITY (STATUTE MILES)													
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2½	≥ 2	≥ 1½	≥ 1¼	≥ 1	≥ ¾	≥ ½	≥ ¼	≥ 0
NO CEILING														
≥ 20000														
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TOTAL NUMBER OF OBSERVATIONS

OFFICIAL USE ONLY

NAVAL WEATHER SERVICE DETAIL REPORT FORM 10-67

# CEILING VERSUS VISIBILITY

STATION

STATION NAME

YEARS

MONTH

## PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

HOURS

CEILING (FEET)	VISIBILITY (STATUTE MILES)													
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2½	≥ 2	≥ 1½	≥ 1¼	≥ 1	≥ ¾	≥ ½	≥ ¼	≥ 0
NO CEILING														
≥ 20000														
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TOTAL NUMBER OF OBSERVATIONS

OFFICIAL USE ONLY

NAVAL WEATHER SERVICE DETACHMENT ASHESVILLE, NC

# CEILING VERSUS VISIBILITY

STATION

STATION NAME

YEARS

MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE  
(FROM HOURLY OBSERVATIONS)

10-65-1-5-1

CEILING FEET	VISIBILITY (STATUTE MILES)														
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2½	≥ 2	≥ 1½	≥ 1¼	≥ 1	≥ ¾	≥ ½	≥ ¼	≥ 0	≥ 0
NO CEILING															
≥ 20000															
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TOTAL NUMBER OF OBSERVATIONS

DRPNAVJCEANMET 5M05

# CEILING VERSUS VISIBILITY

STATION

STATION NAME

YEARS

MONTH

## PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

NO. BY

CEILING FEET	VISIBILITY STATUTE MILES															
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2½	≥ 2	≥ 1½	≥ 1	≥ ¾	≥ ½	≥ ¼	≥ 1/8	≥ 5/16	≥ 1/4	≥ 0
NO CEILING																
≥ 20000																
IV 18000																
IV 16000																
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TOTAL NUMBER OF OBSERVATIONS \_\_\_\_\_

DIRNAVCEANMET SMOS

# CEILING VERSUS VISIBILITY

STATION

STATION NAME

YEARS

MONTH

## PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

HOURS

CEILING FEET	VISIBILITY (STATUTE MILES)															
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2½	≥ 2	≥ 1½	≥ 1	≥ ½	≥ ¼	≥ 1/8	≥ 1/16	≥ 1/32	≥ 1/64	≥ 1/128
NO CEILING																
≥ 20000																
18000																
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TOTAL NUMBER OF OBSERVATIONS

FORMAL CLASSIFICATION

# CEILING VERSUS VISIBILITY

STATION

STATION NAME

YEAR

MONTH

## PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

NO. OF

CEILING FEET	VISIBILITY - STATUTE MILES:															
	≥ 0	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2½	≥ 2	≥ 1½	≥ 1¼	≥ 1	≥ ¾	≥ ½	≥ ¼	≥ 5/16	≥ 1/8	≥ 0
NO CEILING																
IN 20000																
IN 18000																
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TOTAL NUMBER OF OBSERVATIONS

NO. OF

# CEILING VERSUS VISIBILITY

STATION

STATION NAME

YEARS

MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE  
(FROM HOURLY OBSERVATIONS)

ALL PAGES

CEILING FEET	VISIBILITY - STATUTE MILES															
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2.5	≥ 2	≥ 1.5	≥ 1	≥ .5	≥ .4	≥ .3	≥ .25	≥ .2	≥ .15	≥ .1
NO CEILING																
≥ 20000																
IN 18000																
IN 16000																
IN 14000																
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TOTAL NUMBER OF OBSERVATIONS

STATION NAME



# CEILING VERSUS VISIBILITY

STATION

STATION NAME

YEARS

MONTH

## PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

NUMBER

CEILING FEET	VISIBILITY, STATUTE MILES															
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2½	≥ 2	≥ 1½	≥ 1	≥ ¾	≥ ½	≥ ¼	≥ 1/8	≥ 1/16	≥ 1/32	≥ 1/64
NO CEILING																
≥ 20000																
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≥ 700																
≥ 600																
≥ 500																
≥ 400																
≥ 300																
≥ 200																
≥ 100																
≥ 0																

TOTAL NUMBER OF OBSERVATIONS

LOW WIND SPEED

# CEILING VERSUS VISIBILITY

STATION

STATION NAME

YEARS

## PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

CEILING FEET	VISIBILITY, STATUTE MILES													
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2.5	≥ 2	≥ 1.5	≥ 1	≥ .5	≥ .4	≥ .3	≥ .25	≥ .2
NO CEILING														
≥ 20000														
≥ 18000														
≥ 16000														
≥ 14000														
≥ 12000														
≥ 10000														
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≥ 7500														
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≥ 900														
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≥ 700														
≥ 600														
≥ 500														
≥ 400														
≥ 300														
≥ 200														
≥ 100														
≥ 0														

TOTAL NUMBER OF OBSERVATIONS

PERCENTAGE FREQUENCY

# CEILING VERSUS VISIBILITY

STATION

STATION NAME

YEARS

MONTH

## PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

HOURS

CEILING FEET	VISIBILITY (STATUTE MILES)															
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2½	≥ 2	≥ 1½	≥ 1¼	≥ 1	≥ ¾	≥ ½	≥ ¼	≥ 1/8	≥ 0	≥ 0
NO CEILING																
≥ 20000																
≥ 18000																
≥ 16000																
≥ 14000																
≥ 12000																
≥ 10000																
≥ 9000																
≥ 8000																
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≥ 700																
≥ 600																
≥ 500																
≥ 400																
≥ 300																
≥ 200																
≥ 100																
≥ 0																

TOTAL NUMBER OF OBSERVATIONS

OFFICIAL USE ONLY

NATIONAL WEATHER SERVICE METEOROLOGICAL SERVICE

# CEILING VERSUS VISIBILITY

STATION

STATION NAME

YEARS

MONTH

## PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

HOURLY

CEILING (FEET)	VISIBILITY (STATUTE MILES)														
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2½	≥ 2	≥ 1½	≥ 1	≥ ½	≥ ¼	≥ 1/8	≥ 1/16	≥ 1/32	≥ 0
NO CEILING															
≥ 20000															
IV 18000															
IV 16000															
IV 14000															
IV 12000															
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IV 100															
IV 0															

TOTAL NUMBER OF OBSERVATIONS

GRAPHIC CEILING

NAVAL WEATHER SERVICE REPORT (FORM 10-1)

# CEILING VERSUS VISIBILITY

STATION

STATION NAME

YEARS

MONTH

## PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

NO. OF OBS.

CEILING FEET	VISIBILITY (STATUTE MILES)															
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2½	≥ 2	≥ 1½	≥ 1	≥ 1	≥ ½	≥ ¼	≥ ¼	≥ ¼	≥ 5/16	≥ 0
NO CEILING																
≥ 20000																
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IV IV 0																

TOTAL NUMBER OF OBSERVATIONS \_\_\_\_\_

DIRNAVOCANMET SMDS

NATIONAL WEATHER SERVICE

# CEILING VERSUS VISIBILITY

STATION

STATION NAME

YEARS

DATE

## PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

NO. OF

CEILING FEET	VISIBILITY (STATUTE MILES)													
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2½	≥ 2	≥ 1½	≥ 1	≥ ½	≥ ¼	≥ 1/8	≥ 1/16	≥ 1/32
NO CEILING														
≥ 20000														
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TOTAL NUMBER OF OBSERVATIONS

DIRTY AND CANNOT BE USED

NO. 1 WEATHER DATA SHEET (FORM 1-1)

# CEILING VERSUS VISIBILITY

STATION

STATION NAME

YEARS

MONTH

## PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

NO. OF DAYS

CEILING FEET	VISIBILITY (STATUTE MILES)															
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2½	≥ 2	≥ 1½	≥ 1¼	≥ 1	≥ ¾	≥ ½	≥ ¼	≥ 1/8	≥ 0.1	≥ 0
NO CEILING																
≥ 20000																
IV 18000																
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TOTAL NUMBER OF OBSERVATIONS

DIRNAVJCEANMET 5MOS

LOCAL WEATHER SERVICE DETACHMENT, APO FUELFIELD

# CEILING VERSUS VISIBILITY

STATION

STATION NAME

YEARS

MONTH

## PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

HOURLY

CEILING FEET	VISIBILITY (STATUTE MILES)															
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2½	≥ 2	≥ 1½	≥ 1¼	≥ 1	≥ ¾	≥ ½	≥ ¼	≥ 5/16	≥ 1/8	≥ 0
NO CEILING																
≥ 20000																
18000																
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14000																
12000																
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TOTAL NUMBER OF OBSERVATIONS

DIPNAVJCEANMET 5MOS



NAVAL WEATHER SERVICE DETACHMENT WASHINGTON

# CEILING VERSUS VISIBILITY

STATION

STATION NAME

YEARS

MONTH

## PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

HOURLY

CEILING (FEET)	VISIBILITY (STATUTE MILES)															
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2½	≥ 2	≥ 1½	≥ 1¼	≥ 1	≥ ¾	≥ ½	≥ ¼	≥ 5/16	≥ 1/8	≥ 0
NO CEILING																
≥ 20000																
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TOTAL NUMBER OF OBSERVATIONS

DIRNAVCEANMET SMOS

# CEILING VERSUS VISIBILITY

STATION

STATION NAME

YEARS

MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE  
(FROM HOURLY OBSERVATIONS)

CEILING FEET	VISIBILITY - STATUTE MILES															
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2½	≥ 2	≥ 1½	≥ 1	≥ ¾	≥ ½	≥ ¼	≥ 1/8	≥ 1/16	≥ 1/32	≥ 1/64
NO CEILING																
≥ 20000																
IV 18000																
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IV 0																

TOTAL NUMBER OF OBSERVATIONS

DATA SOURCE

# CEILING VERSUS VISIBILITY

STA. OR

STATION NAME

YEARS

MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE  
(FROM HOURLY OBSERVATIONS)

HOURLY

CEILING FEET	VISIBILITY - STATUTE MILES															
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2½	≥ 2	≥ 1½	≥ 1¼	≥ 1	≥ ¾	≥ ½	≥ ¼	≥ 1/8	≥ 0	≥ 0
NO CEILING																
≥ 20000																
≥ 18000																
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≥ 200																
≥ 100																
≥ 0																

TOTAL NUMBER OF OBSERVATIONS

DIRECTOR GENERAL MET

NAVAL WEATHER SERVICE DETACHMENT, WHEELER, NEB.

# CEILING VERSUS VISIBILITY

STATION

STATION NAME

YEARS

MONTH

## PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

HOURLY

CEILING FEET	VISIBILITY (STATUTE MILES)															
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2½	≥ 2	≥ 1½	≥ 1	≥ 1	≥ ½	≥ ½	≥ ¼	≥ ¼	≥ 16	≥ 0
NO CEILING																
≥ 20000																
IV 18000																
IV 16000																
IV 14000																
IV 12000																
IV 10000																
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IV 0																

TOTAL NUMBER OF OBSERVATIONS

OFFICIAL CLEAN MET. 5000

# CEILING VERSUS VISIBILITY

NAVY WEATHER SERVICE

STATION

STATION NAME

YEARS

MONTH

## PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

CEILING FEET	VISIBILITY (STATUTE MILES)													
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2½	≥ 2	≥ 1½	≥ 1	≥ ½	≥ ¼	≥ 1/8	≥ 1/16	≥ 1/32
NO CEILING														
≥ 20000														
18000														
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100														
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TOTAL NUMBER OF OBSERVATIONS

OFFICIAL WEATHER SERVICE

# CEILING VERSUS VISIBILITY

STATION

STATION NAME

YEARS

MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE  
(FROM HOURLY OBSERVATIONS)

CEILING FEET	VISIBILITY, STATUTE MILES															
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2.5	≥ 2	≥ 1.5	≥ 1	≥ .5	≥ .25	≥ .15	≥ .1	≥ .05	≥ .025	≥ .01
NO CEILING																
≥ 20000																
≥ 18000																
≥ 16000																
≥ 14000																
≥ 12000																
≥ 10000																
≥ 9000																
≥ 8000																
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≥ 500																
≥ 400																
≥ 300																
≥ 200																
≥ 100																
≥ 0																

TOTAL NUMBER OF OBSERVATIONS

WIND DIRECTION

# CEILING VERSUS VISIBILITY

STATION

STATION NAME

YEARS

MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE  
(FROM HOURLY OBSERVATIONS)

DATE

CEILING FEET	VISIBILITY, STATUTE MILES															
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2.5	≥ 2	≥ 1.5	≥ 1	≥ .5	≥ .4	≥ .3	≥ .25	≥ .2	≥ .15	≥ .1
NO. CEILING																
≥ 20000																
≥ 18000																
≥ 16000																
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≥ 500																
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≥ 300																
≥ 200																
≥ 100																
≥ 0																

TOTAL NUMBER OF OBSERVATIONS

# CEILING VERSUS VISIBILITY

NAME OF AIRPORT

STATION

STATION NAME

YEARS

MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE  
(FROM HOURLY OBSERVATIONS)

CEILING FEET	VISIBILITY - STATUTE MILES													
	≥ 10	9.5	9	8.5	8	7.5	7	6.5	6	5.5	5	4.5	4	3.5
NO. CEILING														
≥ 20000														
18000														
16000														
14000														
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100														
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TOTAL NUMBER OF OBSERVATIONS

NAME OF REPORTING OFFICER



# CEILING VERSUS VISIBILITY

STATION \_\_\_\_\_ STATION NAME \_\_\_\_\_ YEARS \_\_\_\_\_ MONTH \_\_\_\_\_  
 PERCENTAGE FREQUENCY OF OCCURRENCE  
 (FROM HOURLY OBSERVATIONS)

CEILING FEET	VISIBILITY - STATUTE MILES															
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2½	≥ 2	≥ 1½	≥ 1¼	≥ 1	≥ ¾	≥ ½	≥ ¼	≥ 1/16	≥ 1/32	≥ 0
NO CEILING																
≥ 20000																
18000																
16000																
14000																
12000																
10000																
9000																
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TOTAL NUMBER OF OBSERVATIONS \_\_\_\_\_

DATA RELATIVE TO \_\_\_\_\_

NAVAL WEATHER SERVICE DETROIT, MICHIGAN

# CEILING VERSUS VISIBILITY

STATION

STATION NAME

YEARS

MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE  
(FROM HOURLY OBSERVATIONS)

HOURLY

CEILING (FEET)	VISIBILITY (STATUTE MILES)															
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2½	≥ 2	≥ 1½	≥ 1¼	≥ 1	≥ ¾	≥ ½	≥ ¼	≥ 1/8	≥ 0	≥ 0
NO CEILING																
IV 20000																
IV 18000																
IV 16000																
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IV 10000																
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TOTAL NUMBER OF OBSERVATIONS

DATA FILE NAME

NAVAL WEATHER SERVICE DATA REPORTING INSTRUCTIONS

# CEILING VERSUS VISIBILITY

STATION

STATION NAME

YEARS

MONTH

## PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

NO. OF HOURS

CEILING (FEET)	VISIBILITY (STATUTE MILES)															
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2½	≥ 2	≥ 1½	≥ 1¼	≥ 1	≥ ¾	≥ ½	≥ ¼	≥ 1/8	≥ 0	≥ 0
NO CEILING																
≥ 20000																
IV 18000																
IV 16000																
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TOTAL NUMBER OF OBSERVATIONS

UNAVIUCEANMET 00000

NAVY WEATHER SERVICE DETAIL REPORT WASHINGTON, D.C.

# CEILING VERSUS VISIBILITY

STATION

STATION NAME

YEARS

MONTH

## PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

HOURS

CEILING FEET	VISIBILITY (STATUTE MILES)															
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2½	≥ 2	≥ 1½	≥ 1¼	≥ 1	≥ ¾	≥ ½	≥ ¼	≥ 1/8	≥ 0	≥ 0
NO CEILING																
≥ 20000																
18000																
16000																
14000																
12000																
10000																
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TOTAL NUMBER OF OBSERVATIONS

GRAPHIC SCALE

NAVAL WEATHER SERVICE FORM NO. 1-60 (REV. 1-59)

# CEILING VERSUS VISIBILITY

STATION

STATION NAME

YEARS

MONTH

## PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

HOURS

CEILING FEET	VISIBILITY (STATUTE MILES)														
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2½	≥ 2	≥ 1½	≥ 1¼	≥ 1	≥ ¾	≥ ½	≥ ¼	≥ 0	≥ 0
NO CEILING															
IV 20000															
IV 18000															
IV 16000															
IV 14000															
IV 12000															
IV 10000															
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IV 0															

TOTAL NUMBER OF OBSERVATIONS

UNCLASSIFIED

NAVAL WEATHER SERVICE DETACHMENT WHEELER, ND

# CEILING VERSUS VISIBILITY

STATION

STATION NAME

YEARS

MONTH

## PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

HOURS

CEILING FEET	VISIBILITY (STATUTE MILES)															
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2½	≥ 2	≥ 1½	≥ 1¼	≥ 1	≥ ¾	≥ ½	≥ ¼	≥ 1/8	≥ 0	≥ 0
NO CEILING																
≥ 20000																
18000																
16000																
14000																
12000																
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TOTAL NUMBER OF OBSERVATIONS

ORIGINAL CLASSIFIED

NAVAL WEATHER SERVICE DETACHMENT WHELENS, TN

# CEILING VERSUS VISIBILITY

STATION

STATION NAME

YEARS

MONTH

## PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

HOURLY DATA

CEILING FEET	VISIBILITY (STATUTE MILES)															
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2½	≥ 2	≥ 1½	≥ 1¼	≥ 1	≥ ¾	≥ ½	≥ ¼	≥ 1/16	≥ 1/32	≥ 0
NO CEILING																
≥ 20000																
IV 18000																
IV 16000																
IV 14000																
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IV 10000																
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IV 100																
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TOTAL NUMBER OF OBSERVATIONS

ORIGINATOR NAME

DATE

NATIONAL WEATHER SERVICE DETACHMENT WHEELING, TN

# CEILING VERSUS VISIBILITY

STATION

STATION NAME

YEARS

MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE  
(FROM HOURLY OBSERVATIONS)

HOURLY

CEILING FEET	VISIBILITY (STATUTE MILES)													
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2½	≥ 2	≥ 1½	≥ 1¼	≥ 1	≥ ¾	≥ ½	≥ ¼	0
NO CEILING														
≥ 20000														
IV 18000														
IV 16000														
IV 14000														
IV 12000														
IV 10000														
IV 9000														
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IV 200														
IV 100														
IV 0														

TOTAL NUMBER OF OBSERVATIONS

DIRNAVJCEANMET 5MOS



NAVAL WEATHER SERVICE FORM NO. 10-1 (10-1-60)

# CEILING VERSUS VISIBILITY

STATION

STATION NAME

YEARS

MONTH

## PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

HEIGHT

CEILING FEET	VISIBILITY (STATUTE MILES)													
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2½	≥ 2	≥ 1½	≥ 1¼	≥ 1	≥ ¾	≥ ½	≥ ¼	≥ 0
NO CEILING														
≥ 20000														
18000														
16000														
14000														
12000														
10000														
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TOTAL NUMBER OF OBSERVATIONS

OFFICIAL USE ONLY

NAME OF STATION

# CEILING VERSUS VISIBILITY

STATION

STATION NAME

YEARS

MONTH

## PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

HOURS

CEILING FEET	VISIBILITY - STATUTE MILES															
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2½	≥ 2	≥ 1½	≥ 1	≥ ½	≥ ¼	≥ 1/8	≥ 1/16	≥ 1/32	≥ 1/64	≥ 0
NO CEILING																
≥ 20000																
18000																
16000																
14000																
12000																
10000																
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TOTAL NUMBER OF OBSERVATIONS

DAY - NIGHT

# CEILING VERSUS VISIBILITY

STATION

STATION NAME

YEAR

MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE  
(FROM HOURLY OBSERVATIONS)

CEILING FEET	VISIBILITY, STATUTE MILES															
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2½	≥ 2	≥ 1½	≥ 1	≥ 1	≥ ½	≥ ½	≥ ½	≥ ½	≥ ½	≥ ½
NO CEILING																
≥ 20000																
18000																
16000																
14000																
12000																
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TOTAL NUMBER OF OBSERVATIONS

OFFICIAL REPORT

# CEILING VERSUS VISIBILITY

STATION NAME: \_\_\_\_\_ YEARS: \_\_\_\_\_ MONTH: \_\_\_\_\_  
 STATION: \_\_\_\_\_  
 PERCENTAGE FREQUENCY OF OCCURRENCE  
 (FROM HOURLY OBSERVATIONS)  
 HOURS: \_\_\_\_\_

CEILING FEET	VISIBILITY STATUTE MILES															
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2½	≥ 2	≥ 1½	≥ 1	≥ ¾	≥ ½	≥ ¼	≥ 1/8	≥ 1/16	≥ 1/32	≥ 0
NO CEILING																
IV 20000																
IV 18000																
IV 16000																
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TOTAL NUMBER OF OBSERVATIONS

# CEILING VERSUS VISIBILITY

STATION

STATION NAME

YEARS

MONTH

## PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

CEILING FEET	VISIBILITY STATUTE MILES												
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2½	≥ 2	≥ 1½	≥ 1	≥ ½	≥ ¼	≥ 1/8	≥ 1/16
NO CEILING													
≥ 20000													
18000													
16000													
14000													
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100													
0													

TOTAL NUMBER OF OBSERVATIONS

HOW PREPARED

# CEILING VERSUS VISIBILITY

STATION

STATION NAME

YEARS

MONTH

## PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

CEILING FEET	VISIBILITY - STATUTE MILES														
	≥ 10	≥ 9	≥ 8	≥ 7	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2 1/2	≥ 2	≥ 1 1/2	≥ 1	≥ 3/4	≥ 1/2	≥ 1/4
NO. OBS.															
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TOTAL NUMBER OF OBSERVATIONS

STATION NAME

# CEILING VERSUS VISIBILITY

STATION NAME

STATION

STATION NAME

YEARS

MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE  
(FROM HOURLY OBSERVATIONS)

PERCENT

CEILING FEET	VISIBILITY (STATUTE MILES)													
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2½	≥ 2	≥ 1½	≥ 1½	≥ 1	≥ ¾	≥ ¾	≥ ½	≥ ½
NO CEILING														
≥ 20000														
IV 18000														
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TOTAL NUMBER OF OBSERVATIONS

PERCENTAGE FREQUENCY OF OCCURRENCE

*Journal of Management Inquiry* 18(6)br/>© The Author(s) 2009  
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## STATION

### STATE OF MARY

## TEARS

100%

1000

[illegible]

TOTAL NUMBER OF OBSERVATIONS

*Journal of Management Education* 30(6)



$$\Delta_{\text{max}} = \frac{\Delta}{\sqrt{1 + \left( \frac{\sigma_{\text{residual}}}{\sigma_{\text{model}}} \right)^2}}$$

**NOTES**

41. 95. 3. 2.

TOTAL NUMBER OF OBSERVATIONS

... (1) ...

# CEILING VERSUS VISIBILITY

STATION

STATION NAME

YEAR

MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE  
(FROM HOURLY OBSERVATIONS)

HOURLY

CEILING FEET	VISIBILITY (STATUTE MILES)															
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2½	≥ 2	≥ 1½	≥ 1¼	≥ 1	≥ ¾	≥ ½	≥ ¼	≥ 1/8	≥ 0	≥ 0
NO CEILING																
≥ 20000																
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TOTAL NUMBER OF OBSERVATIONS

DATA CLASSIFIED

# CEILING VERSUS VISIBILITY

NAME OF WEATHER STATION: \_\_\_\_\_

STATION \_\_\_\_\_

STATION NAME \_\_\_\_\_

YEARS \_\_\_\_\_

MONTH \_\_\_\_\_

## PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

WINDS: \_\_\_\_\_

CEILING FEET	VISIBILITY (STATUTE MILES)															
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2 1/2	≥ 2	≥ 1 1/2	≥ 1	≥ 3/4	≥ 1/2	≥ 1/4	≥ 1/8	≥ 1/16	≥ 1/32	≥ 0
NO CEILING																
≥ 20000																
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IV 0																

TOTAL NUMBER OF OBSERVATIONS \_\_\_\_\_

ORIGIN: \_\_\_\_\_

[illegible]

STATION

STATION NAME

YEAR

1000

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[illegible]

TOTAL NUMBER OF OBSERVATIONS

1042 A. J. G. J. VAN DER KAM ET AL.

NATIONAL WEATHER SERVICE DETROIT, MICHIGAN

# CEILING VERSUS VISIBILITY

STATION

STATION NAME

YEARS

MONTH

## PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

HOURS

CEILING (FEET)	VISIBILITY (STATUTE MILES)															
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2½	≥ 2	≥ 1½	≥ 1	≥ ¾	≥ ½	≥ ¼	≥ 5/16	≥ 1/8	≥ 0	
NO CEILING																
≥ 20000																
≥ 18000																
≥ 16000																
≥ 14000																
≥ 12000																
IV 10000																
IV 9000																
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IV 100																
IV 0																

TOTAL NUMBER OF OBSERVATIONS

DATA SOURCE AND MET STATUS

NAVAL WEATHER SERVICE DATA REPORT FORM NO. 1

# CEILING VERSUS VISIBILITY

STATION

STATION NAME

YEARS

MONTH

## PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

HOURS

CEILING FEET	VISIBILITY (STATUTE MILES)															
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2½	≥ 2	≥ 1½	≥ 1	≥ ¾	≥ ½	≥ ¼	≥ 1/8	≥ 5/16	≥ 1/4	≥ 0
NO CEILING																
≥ 20000																
IV 18000																
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TOTAL NUMBER OF OBSERVATIONS

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NATIONAL WEATHER SERVICE METEOROLOGICAL SERVICE

# CEILING VERSUS VISIBILITY

STATION

STATION NAME

YEARS

MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE  
(FROM HOURLY OBSERVATIONS)

CEILING FEET	VISIBILITY, STATUTE MILES														
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2½	≥ 2	≥ 1½	≥ 1	≥ ½	≥ ¼	≥ 1/8	≥ 1/16	≥ 1/32	≥ 1/64
NO CEILING															
IV 20000															
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IV 100															
IV 0															

TOTAL NUMBER OF OBSERVATIONS

WIND DIRECTION

As a result, the model is able to capture the temporal dependencies between the input and output sequences, and the model is able to learn the temporal dependencies between the input and output sequences.

STATION

STATION NAME

75499

1000

PERCENTAGE FREQUENCY OF OCCURRENCE  
(FROM HOURLY OBSERVATIONS)

1999, 2000, 2001, 2002, 2003, 2004, 2005, 2006, 2007, 2008, 2009, 2010, 2011, 2012, 2013, 2014, 2015, 2016, 2017, 2018, 2019, 2020, 2021, 2022, 2023, 2024, 2025, 2026, 2027, 2028, 2029, 2030, 2031, 2032, 2033, 2034, 2035, 2036, 2037, 2038, 2039, 2040, 2041, 2042, 2043, 2044, 2045, 2046, 2047, 2048, 2049, 2050, 2051, 2052, 2053, 2054, 2055, 2056, 2057, 2058, 2059, 2060, 2061, 2062, 2063, 2064, 2065, 2066, 2067, 2068, 2069, 2070, 2071, 2072, 2073, 2074, 2075, 2076, 2077, 2078, 2079, 2080, 2081, 2082, 2083, 2084, 2085, 2086, 2087, 2088, 2089, 2090, 2091, 2092, 2093, 2094, 2095, 2096, 2097, 2098, 2099, 2100, 2101, 2102, 2103, 2104, 2105, 2106, 2107, 2108, 2109, 2110, 2111, 2112, 2113, 2114, 2115, 2116, 2117, 2118, 2119, 2120, 2121, 2122, 2123, 2124, 2125, 2126, 2127, 2128, 2129, 2130, 2131, 2132, 2133, 2134, 2135, 2136, 2137, 2138, 2139, 2140, 2141, 2142, 2143, 2144, 2145, 2146, 2147, 2148, 2149, 2150, 2151, 2152, 2153, 2154, 2155, 2156, 2157, 2158, 2159, 2160, 2161, 2162, 2163, 2164, 2165, 2166, 2167, 2168, 2169, 2170, 2171, 2172, 2173, 2174, 2175, 2176, 2177, 2178, 2179, 2180, 2181, 2182, 2183, 2184, 2185, 2186, 2187, 2188, 2189, 2190, 2191, 2192, 2193, 2194, 2195, 2196, 2197, 2198, 2199, 2200, 2201, 2202, 2203, 2204, 2205, 2206, 2207, 2208, 2209, 2210, 2211, 2212, 2213, 2214, 2215, 2216, 2217, 2218, 2219, 2220, 2221, 2222, 2223, 2224, 2225, 2226, 2227, 2228, 2229, 2230, 2231, 2232, 2233, 2234, 2235, 2236, 2237, 2238, 2239, 2240, 2241, 2242, 2243, 2244, 2245, 2246, 2247, 2248, 2249, 2250, 2251, 2252, 2253, 2254, 2255, 2256, 2257, 2258, 2259, 2260, 2261, 2262, 2263, 2264, 2265, 2266, 2267, 2268, 2269, 2270, 2271, 2272, 2273, 2274, 2275, 2276, 2277, 2278, 2279, 2280, 2281, 2282, 2283, 2284, 2285, 2286, 2287, 2288, 2289, 2290, 2291, 2292, 2293, 2294, 2295, 2296, 2297, 2298, 2299, 2300, 2301, 2302, 2303, 2304, 2305, 2306, 2307, 2308, 2309, 2310, 2311, 2312, 2313, 2314, 2315, 2316, 2317, 2318, 2319, 2320, 2321, 2322, 2323, 2324, 2325, 2326, 2327, 2328, 2329, 2330, 2331, 2332, 2333, 2334, 2335, 2336, 2337, 2338, 2339, 2340, 2341, 2342, 2343, 2344, 2345, 2346, 2347, 2348, 2349, 2350, 2351, 2352, 2353, 2354, 2355, 2356, 2357, 2358, 2359, 2360, 2361, 2362, 2363, 2364, 2365, 2366, 2367, 2368, 2369, 2370, 2371, 2372, 2373, 2374, 2375, 2376, 2377, 2378, 2379, 2380, 2381, 2382, 2383, 2384, 2385, 2386, 2387, 2388, 2389, 2390, 2391, 2392, 2393, 2394, 2395, 2396, 2397, 2398, 2399, 2400, 2401, 2402, 2403, 2404, 2405, 2406, 2407, 2408, 2409, 2410, 2411, 2412, 2413, 2414, 2415, 2416, 2417, 2418, 2419, 2420, 2421, 2422, 2423, 2424, 2425, 2426, 2427, 2428, 2429, 2430, 2431, 2432, 2433, 2434, 2435, 2436, 2437, 2438, 2439, 2440, 2441, 2442, 2443, 2444, 2445, 2446, 2447, 2448, 2449, 2450, 2451, 2452, 2453, 2454, 2455, 2456, 2457, 2458, 2459, 2460, 2461, 2462, 2463, 2464, 2465, 2466, 2467, 2468, 2469, 2470, 2471, 2472, 2473, 2474, 2475, 2476, 2477, 2478, 2479, 2480, 2481, 2482, 2483, 2484, 2485, 2486, 2487, 2488, 2489, 2490, 2491, 2492, 2493, 2494, 2495, 2496, 2497, 2498, 2499, 2500, 2501, 2502, 2503, 2504, 2505, 2506, 2507, 2508, 2509, 2510, 2511, 2512, 2513, 2514, 2515, 2516, 2517, 2518, 2519, 2520, 2521, 2522, 2523, 2524, 2525, 2526, 2527, 2528, 2529, 2530, 2531, 2532, 2533, 2534, 2535, 2536, 2537, 2538, 2539, 2540, 2541, 2542, 2543, 2544, 2545, 2546, 2547, 2548, 2549, 2550, 2551, 2552, 2553, 2554, 2555, 2556, 2557, 2558, 2559, 2560, 2561, 2562, 2563, 2564, 2565, 2566, 2567, 2568, 2569, 2570, 2571, 2572, 2573, 2574, 2575, 2576, 2577, 2578, 2579, 2580, 2581, 2582, 2583, 2584, 2585, 2586, 2587, 2588, 2589, 2590, 2591, 2592, 2593, 2594, 2595, 2596, 2597, 2598, 2599, 2600, 2601, 2602, 2603, 2604, 2605, 2606, 2607, 2608, 2609, 2610, 2611, 2612, 2613, 2614, 2615, 2616, 2617, 2618, 2619, 2620, 2621, 2622, 2623, 2624, 2625, 2626, 2627, 2628, 2629, 2630, 2631, 2632, 2633, 2634, 2635, 2636, 2637, 2638, 2639, 2640, 2641, 2642, 2643, 2644, 2645, 2646, 2647, 2648, 2649, 2650, 2651, 2652, 2653, 2654, 2655, 2656, 2657, 2658, 2659, 2660, 2661, 2662, 2663, 2664, 2665, 2666, 2667, 2668, 2669, 2670, 2671, 2672, 2673, 2674, 2675, 2676, 2677, 2678, 2679, 2680, 26

[illegible]

TOTAL NUMBER OF OBSERVATIONS

DEPARTMENT OF AGRICULTURE      OFFICE OF



# CEILING VERSUS VISIBILITY

STATION

STATION NAME

YEARS

MONTH

## PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

CEILING FEET	VISIBILITY, STATUTE MILES															
	≥ 10	9	8	7	6	5	4	3	2.5	2	1.5	1	.75	.5	.25	0
NO CEILING																
≥ 20000																
18000																
16000																
14000																
12000																
10000																
9000																
8000																
7000																
6000																
5000																
4500																
4000																
3500																
3000																
2500																
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1600																
1400																
1200																
1000																
900																
800																
700																
600																
500																
400																
300																
200																
100																
0																

TOTAL NUMBER OF OBSERVATIONS

NO. OF OBSERVATIONS

# CEILING VERSUS VISIBILITY

STATION

STATION NAME

YEARS

MONTH

## PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

HOURS

CEILING FEET	VISIBILITY - STATUTE MILES															
	≥ 10	≥ 9	≥ 8	≥ 7	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2	≥ 1 1/2	≥ 1	≥ 3/4	≥ 1/2	≥ 1/4	≥ 1/8	0
NO CEILING																
≥ 20000																
18000																
16000																
14000																
12000																
10000																
9000																
8000																
7000																
6000																
5000																
4500																
4000																
3500																
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1800																
1500																
1200																
1000																
900																
800																
700																
600																
500																
400																
300																
200																
100																
0																

TOTAL NUMBER OF OBSERVATIONS

PERCENT CLEAR

# CEILING VERSUS VISIBILITY

STATION

STATION NAME

YEARS

MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE  
(FROM HOURLY OBSERVATIONS)

CEILING FEET	VISIBILITY, STATUTE MILES															
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2½	≥ 2	≥ 1½	≥ 1	≥ ¾	≥ ½	≥ ¼	≥ 1/8	≥ 1/16	≥ 1/32	≥ 1/64
NO CEILING																
≥ 20000																
18000																
16000																
14000																
12000																
10000																
9000																
8500																
8000																
7500																
6000																
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4500																
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1400																
1200																
1000																
900																
800																
750																
600																
500																
400																
300																
200																
100																
0																

TOTAL NUMBER OF OBSERVATIONS

# CEILING VERSUS VISIBILITY

STATION

STATION NAME

YEARS

MONTH

## PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

CEILING FEET	VISIBILITY, STATUTE MILES															
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2.5	≥ 2	≥ 1.5	≥ 1	≥ .75	≥ .5	≥ .25	≥ .1	≥ .05	≥ .01	≥ 0
NO. OF HOURS																
≥ 20000																
≥ 18000																
≥ 16000																
≥ 14000																
≥ 12000																
≥ 10000																
≥ 9000																
≥ 8000																
≥ 7000																
≥ 6000																
≥ 5000																
≥ 4500																
≥ 4000																
≥ 3500																
≥ 3000																
≥ 2500																
≥ 2000																
≥ 1800																
≥ 1600																
≥ 1400																
≥ 1200																
≥ 1000																
≥ 900																
≥ 800																
≥ 700																
≥ 600																
≥ 500																
≥ 400																
≥ 300																
≥ 200																
≥ 100																
≥ 0																

TOTAL NUMBER OF OBSERVATIONS

# CEILING VERSUS VIS

STATION

STATION NAME

YEARS

## PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

CEILING FEET	VISIBILITY - STATUTE MILES												
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2½	≥ 2	≥ 1½	≥ 1	≥ ½	≥ ¼	≥ 1/8	≥ 1/16
NO CEILING													
≥ 20000													
18000													
16000													
14000													
12000													
10000													
9000													
8500													
7900													
6000													
5000													
4500													
4000													
3500													
3000													
2500													
2000													
1800													
1600													
1400													
1200													
1000													
900													
800													
700													
600													
500													
400													
300													
200													
100													
40													
1													

TOTAL NUMBER OF OBSERVATIONS

# CEILING VERSUS VISIBILITY

STATION

STATION NAME

YEARS

MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE  
(FROM HOURLY OBSERVATIONS)

DATE

CEILING FEET	VISIBILITY - STATUTE MILES															
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2½	≥ 2	≥ 1½	≥ 1	≥ ¾	≥ ½	≥ ¼	≥ ⅓	≥ ⅒	≥ ⅛	≥ 1/16
NO CEILING																
≥ 20000																
18000																
16000																
14000																
12000																
10000																
9000																
8000																
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900																
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700																
600																
500																
400																
300																
200																
100																
0																

TOTAL NUMBER OF OBSERVATIONS

[illegible]

□ □ □ □ □

### EXERCISE 1

U14P1

1000

1001-50

[illegible]

TOTAL NUMBER OF OBSERVATIONS

## SKY COVER

STATION NAME: \_\_\_\_\_ DATE: \_\_\_\_\_ MONTH: \_\_\_\_\_

PERCENTAGE FREQUENCY OF OCCURRENCE  
(FROM HOURLY OBSERVATIONS)

MONTH	HOURS	PERCENTAGE FREQUENCY OF TENTHS OF TOTAL SKY COVER										MEAN TENTHS OF SKY COVER	TOTAL NO. OF OBS.
		0	1	2	3	4	5	6	7	8	9	10	
	1	3.0			1.0						1.0	1.0	1
	2	2.0			1.0						1.0	1.0	1
	3	1.0			1.0						1.0	1.0	1
	4	1.0			1.0						1.0	1.0	1
	5	1.0			1.0						1.0	1.0	1
	6	1.0			1.0						1.0	1.0	1
	7	1.0			1.0						1.0	1.0	1
	8	1.0			1.0						1.0	1.0	1
	9	1.0			1.0						1.0	1.0	1
	10	1.0			1.0						1.0	1.0	1
	11	1.0			1.0						1.0	1.0	1
	12	1.0			1.0						1.0	1.0	1
	13	1.0			1.0						1.0	1.0	1
	14	1.0			1.0						1.0	1.0	1
	15	1.0			1.0						1.0	1.0	1
	16	1.0			1.0						1.0	1.0	1
	17	1.0			1.0						1.0	1.0	1
	18	1.0			1.0						1.0	1.0	1
	19	1.0			1.0						1.0	1.0	1
	20	1.0			1.0						1.0	1.0	1
	21	1.0			1.0						1.0	1.0	1
	22	1.0			1.0						1.0	1.0	1
	23	1.0			1.0						1.0	1.0	1
	24	1.0			1.0						1.0	1.0	1
	TOTAL	1.0			1.0						1.0	1.0	1



## SKY COVER

STATION

STATION NAME

MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE  
FROM HOURLY OBSERVATIONS

MONTH	HOURS UNTIL	PERCENTAGE FREQUENCY OF TENTHS OF TOTAL SKY COVER										MEAN TENTHS OF SKY COVER	TOTAL NO. OF OBS.
		0	1	2	3	4	5	6	7	8	9	10	
	1	7.0			1.0						17.0	17.1	1
	2	5.0			1.0						14.0	14.0	1
	3	2.0			1.0						13.0	13.0	1
	4	1.0			1.0						11.0	11.0	1
	5	1.0			1.0						7.0	7.0	1
	6	1.0			1.0						11.0	11.0	1
	7	1.0			1.0						7.0	7.0	1
	8	1.0			1.0						11.0	11.0	1
	9	1.0			1.0						11.0	11.0	1
	10	1.0			1.0						11.0	11.0	1
	11	1.0			1.0						11.0	11.0	1
	12	1.0			1.0						11.0	11.0	1
	13	1.0			1.0						11.0	11.0	1
	14	1.0			1.0						11.0	11.0	1
	15	1.0			1.0						11.0	11.0	1
	16	1.0			1.0						11.0	11.0	1
	17	1.0			1.0						11.0	11.0	1
	18	1.0			1.0						11.0	11.0	1
	19	1.0			1.0						11.0	11.0	1
	20	1.0			1.0						11.0	11.0	1
	21	1.0			1.0						11.0	11.0	1
	22	1.0			1.0						11.0	11.0	1
	23	1.0			1.0						11.0	11.0	1
	24	1.0			1.0						11.0	11.0	1
	25	1.0			1.0						11.0	11.0	1
	26	1.0			1.0						11.0	11.0	1
	27	1.0			1.0						11.0	11.0	1
	28	1.0			1.0						11.0	11.0	1
	29	1.0			1.0						11.0	11.0	1
	30	1.0			1.0						11.0	11.0	1
	31	1.0			1.0						11.0	11.0	1
	32	1.0			1.0						11.0	11.0	1
	33	1.0			1.0						11.0	11.0	1
	34	1.0			1.0						11.0	11.0	1
	35	1.0			1.0						11.0	11.0	1
	36	1.0			1.0						11.0	11.0	1
	37	1.0			1.0						11.0	11.0	1
	38	1.0			1.0						11.0	11.0	1
	39	1.0			1.0						11.0	11.0	1
	40	1.0			1.0						11.0	11.0	1
	41	1.0			1.0						11.0	11.0	1
	42	1.0			1.0						11.0	11.0	1
	43	1.0			1.0						11.0	11.0	1
	44	1.0			1.0						11.0	11.0	1
	45	1.0			1.0						11.0	11.0	1
	46	1.0			1.0						11.0	11.0	1
	47	1.0			1.0						11.0	11.0	1
	48	1.0			1.0						11.0	11.0	1
	49	1.0			1.0						11.0	11.0	1
	50	1.0			1.0						11.0	11.0	1
	51	1.0			1.0						11.0	11.0	1
	52	1.0			1.0						11.0	11.0	1
	53	1.0			1.0						11.0	11.0	1
	54	1.0			1.0						11.0	11.0	1
	55	1.0			1.0						11.0	11.0	1
	56	1.0			1.0						11.0	11.0	1
	57	1.0			1.0						11.0	11.0	1
	58	1.0			1.0						11.0	11.0	1
	59	1.0			1.0						11.0	11.0	1
	60	1.0			1.0						11.0	11.0	1
	61	1.0			1.0						11.0	11.0	1
	62	1.0			1.0						11.0	11.0	1
	63	1.0			1.0						11.0	11.0	1
	64	1.0			1.0						11.0	11.0	1
	65	1.0			1.0						11.0	11.0	1
	66	1.0			1.0						11.0	11.0	1
	67	1.0			1.0						11.0	11.0	1
	68	1.0			1.0						11.0	11.0	1
	69	1.0			1.0						11.0	11.0	1
	70	1.0			1.0						11.0	11.0	1
	71	1.0			1.0						11.0	11.0	1
	72	1.0			1.0						11.0	11.0	1
	73	1.0			1.0						11.0	11.0	1
	74	1.0			1.0						11.0	11.0	1
	75	1.0			1.0						11.0	11.0	1
	76	1.0			1.0						11.0	11.0	1
	77	1.0			1.0						11.0	11.0	1
	78	1.0			1.0						11.0	11.0	1
	79	1.0			1.0						11.0	11.0	1
	80	1.0			1.0						11.0	11.0	1
	81	1.0			1.0						11.0	11.0	1
	82	1.0			1.0						11.0	11.0	1
	83	1.0			1.0						11.0	11.0	1
	84	1.0			1.0						11.0	11.0	1
	85	1.0			1.0						11.0	11.0	1
	86	1.0			1.0						11.0	11.0	1
	87	1.0			1.0						11.0	11.0	1
	88	1.0			1.0						11.0	11.0	1
	89	1.0			1.0						11.0	11.0	1
	90	1.0			1.0						11.0	11.0	1
	91	1.0			1.0						11.0	11.0	1
	92	1.0			1.0						11.0	11.0	1
	93	1.0			1.0						11.0	11.0	1
	94	1.0			1.0						11.0	11.0	1
	95	1.0			1.0						11.0	11.0	1
	96	1.0			1.0						11.0	11.0	1
	97	1.0			1.0						11.0	11.0	1
	98	1.0			1.0						11.0	11.0	1
	99	1.0			1.0						11.0	11.0	1
	100	1.0			1.0						11.0	11.0	1
	101	1.0			1.0						11.0	11.0	1
	102	1.0			1.0						11.0	11.0	1
	103	1.0			1.0						11.0	11.0	1
	104	1.0			1.0						11.0	11.0	1
	105	1.0			1.0						11.0	11.0	1
	106	1.0			1.0						11.0	11.0	1
	107	1.0			1.0						11.0	11.0	1
	108	1.0			1.0						11.0	11.0	1
	109	1.0			1.0						11.0	11.0	1
	110	1.0			1.0						11.0	11.0	1
	111	1.0			1.0						11.0	11.0	1
	112	1.0			1.0						11.0	11.0	1
	113	1.0			1.0						11.0	11.0	1
	114	1.0			1.0						11.0	11.0	1
	115	1.0			1.0						11.0	11.0	1
	116	1.0			1.0						11.0	11.0	1
	117	1.0			1.0						11.0	11.0	1
	118	1.0			1.0						11.0	11.0	1
	119	1.0			1.0						11.0	11.0	1
	120	1.0			1.0						11.0	11.0	1
	121	1.0			1.0						11.0	11.0	1
	122	1.0			1.0						11.0	11.0	1
	123	1.0			1.0						11.0	11.0	1
	124	1.0			1.0						11.0	11.0	1
	125	1.0			1.0						11.0	11.0	1
	126	1.0			1.0						11.0	11.0	1
	127	1.0			1.0						11.0	11.0	1
	128	1.0			1.0						11.0	11.0	1
	129	1.0			1.0						11.0	11.0	1
	130	1.0			1.0						11.0	11.0	1
	131	1.0			1.0						11.0	11.0	1
	132	1.0			1.0						11.0	11.0	1
	133	1.0			1.0						11.0	11.0	1
	134	1.0			1.0						11.0	11.0	1
	135	1.0			1.0						11.0	11.0	1
	136	1.0			1.0						11.0	11.0	1
	137	1.0			1.0						11.0	11.0	1
	138	1.0			1.0						11.0	11.0	1
	139	1.0			1.0						11.0	11.0	1

## SKY COVER

PERCENTAGE FREQUENCY OF OCCURRENCE  
FROM HOURLY OBSERVATIONS

MONTH	HOURS OBS.	PERCENTAGE FREQUENCY OF TENTHS OF TOTAL SKY COVER										MEAN TENTHS OF SKY COVER	TOTAL NO. OF OBS.
		0	1	2	3	4	5	6	7	8	9	10	
	1	3.0			17.0						14.0	24.0	1.7
	2	2.0			1.0						10.0	13.0	1.7
	3	1.0			17.0						21.0	41.0	1.7
	4	1.0			17.0						11.0	27.0	1.5
	5	1.0			3.0						20.0	22.0	1.7
	6	1.0			1.0						11.0	12.0	1.1
	7	1.0			3.0						14.0	16.0	1.5
	8	1.0			17.0						11.0	28.0	1.1
TOTALS	1	1.0			7.0						11.0	17.0	1.7

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# SKY COVER

STATION

STATION NAME

YEAR

MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE  
(FROM HOURLY OBSERVATIONS)

MONTH	HOURS 1-24	PERCENTAGE FREQUENCY OF TENTHS OF TOTAL SKY COVER										MEAN TENTHS OF SKY COVER	TOTAL NO. OF OBS.
		0	1	2	3	4	5	6	7	8	9	10	
	1	5.0			1.0						1.0	1.0	1.0
	2	4.0			1.0						1.0	1.0	1.0
	3	3.0			1.0						1.0	1.0	1.0
	4	2.0			1.0						1.0	1.0	1.0
	5	1.0			1.0						1.0	1.0	1.0
	6	1.0			1.0						1.0	1.0	1.0
	7	1.0			1.0						1.0	1.0	1.0
	8	1.0			1.0						1.0	1.0	1.0
	9	1.0			1.0						1.0	1.0	1.0
	10	1.0			1.0						1.0	1.0	1.0
	11	1.0			1.0						1.0	1.0	1.0
	12	1.0			1.0						1.0	1.0	1.0
	13	1.0			1.0						1.0	1.0	1.0
	14	1.0			1.0						1.0	1.0	1.0
	15	1.0			1.0						1.0	1.0	1.0
	16	1.0			1.0						1.0	1.0	1.0
	17	1.0			1.0						1.0	1.0	1.0
	18	1.0			1.0						1.0	1.0	1.0
	19	1.0			1.0						1.0	1.0	1.0
	20	1.0			1.0						1.0	1.0	1.0
	21	1.0			1.0						1.0	1.0	1.0
	22	1.0			1.0						1.0	1.0	1.0
	23	1.0			1.0						1.0	1.0	1.0
	24	1.0			1.0						1.0	1.0	1.0
	TOTAL	1.0			1.0						1.0	1.0	1.0

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## SKY COVER

STATION

STATION NAME

YEAR

MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE  
FROM HOURLY OBSERVATIONS

MONTH	HOURS (EST)	PERCENTAGE FREQUENCY OF TENTHS OF TOTAL SKY COVER										MEAN TENTHS OF SKY COVER	TOTAL NUMBER OF OBS.
		0	1	2	3	4	5	6	7	8	9	10	
JAN	1	2			1						10	10	1
	2	2			1						10	10	1
	3	1			1						10	10	1
	4	1			1						10	10	1
	5	1			1						10	10	1
	6	1			1						10	10	1
	7	1			1						10	10	1
	8	1			1						10	10	1
	9	1			1						10	10	1
	10	1			1						10	10	1
TOTALS		10			10						100	100	10

## SKY COVER

PERCENTAGE FREQUENCY OF OCCURRENCE  
FROM HOURLY OBSERVATIONS

MONTH	HOURS LAST	PERCENT OF FREQUENCY OF OCCURRENCE OF TOTAL SKY COVER										MEAN CENTS OF SKY COVER	TOTAL NO. OF OBS.
		0	1	2	3	4	5	6	7	8	9		
JAN	1	0	0	0	0	0	0	0	0	0	0	0	0
FEB	1	0	0	0	0	0	0	0	0	0	0	0	0
MAR	1	0	0	0	0	0	0	0	0	0	0	0	0
APR	1	0	0	0	0	0	0	0	0	0	0	0	0
MAY	1	0	0	0	0	0	0	0	0	0	0	0	0
JUN	1	0	0	0	0	0	0	0	0	0	0	0	0
JUL	1	0	0	0	0	0	0	0	0	0	0	0	0
AUG	1	0	0	0	0	0	0	0	0	0	0	0	0
SEP	1	0	0	0	0	0	0	0	0	0	0	0	0
OCT	1	0	0	0	0	0	0	0	0	0	0	0	0
NOV	1	0	0	0	0	0	0	0	0	0	0	0	0
DEC	1	0	0	0	0	0	0	0	0	0	0	0	0
TOTAL	1	0	0	0	0	0	0	0	0	0	0	0	0

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PERCENTAGE FREQUENCY OF OCCURRENCE  
FROM HOURLY OBSERVATIONS

MONTH	HOURS - S.T.	PERCENTAGE FREQUENCY OF TENTHS OF TOTAL SKY COVER										MEAN TENTHS OF SKY COVER	TOTAL NO. OF OBS.
		0	1	2	3	4	5	6	7	8	9		
JAN	11	1			2						2	1	1
FEB	11	1			2						2	1	1
MAR	11	1			2						2	1	1
APR	11	1			2						2	1	1
MAY	11	1			2						2	1	1
JUN	11	1			2						2	1	1
JUL	11	1			2						2	1	1
AUG	11	1			2						2	1	1
SEP	11	1			2						2	1	1
OCT	11	1			2						2	1	1
NOV	11	1			2						2	1	1
DEC	11	1			2						2	1	1
TOTAL	11	1			2						2	1	1

PERCENTAGE FREQUENCY OF OCCURRENCE  
FROM HOURLY OBSERVATIONS

MONTH	HOUR TEST	PERCENTAGE FREQUENCY OF TESTS IN										TOTAL PERCENTAGE OVER
		0	1	2	3	4	5	6	7	8	9	
	1	1			3					1	1	1
	2	1			1					1	1	1
	3				1					1	1	1
	4				1					1	1	1
	5				1					1	1	1
	6				1					1	1	1
	7				1					1	1	1
	8				1					1	1	1
	9				1					1	1	1
	10				1					1	1	1
	11				1					1	1	1
	12				1					1	1	1
	13				1					1	1	1
	14				1					1	1	1
	15				1					1	1	1
	16				1					1	1	1
	17				1					1	1	1
	18				1					1	1	1
	19				1					1	1	1
	20				1					1	1	1
	21				1					1	1	1
	22				1					1	1	1
	23				1					1	1	1
	24				1					1	1	1
	25				1					1	1	1
	26				1					1	1	1
	27				1					1	1	1
	28				1					1	1	1
	29				1					1	1	1
	30				1					1	1	1
	31				1					1	1	1
	32				1					1	1	1
	33				1					1	1	1
	34				1					1	1	1
	35				1					1	1	1
	36				1					1	1	1
	37				1					1	1	1
	38				1					1	1	1
	39				1					1	1	1
	40				1					1	1	1
	41				1					1	1	1
	42				1					1	1	1
	43				1					1	1	1
	44				1					1	1	1
	45				1					1	1	1
	46				1					1	1	1
	47				1					1	1	1
	48				1					1	1	1

## SKY COVER

PERCENTAGE FREQUENCY OF OCCURRENCE  
FROM HOURLY OBSERVATIONS

WEATHER CODE	PERCENTAGE FREQUENCY OF OCCURRENCE					TOTAL PERCENTAGE	
	1	2	3	4	5	6	7
1	•	•	•	•	•	•	•
2	•	•	•	•	•	•	•
3	•	•	•	•	•	•	•
4	•	•	•	•	•	•	•
5	•	•	•	•	•	•	•
6	•	•	•	•	•	•	•
7	•	•	•	•	•	•	•
8	•	•	•	•	•	•	•
9	•	•	•	•	•	•	•
10	•	•	•	•	•	•	•
11	•	•	•	•	•	•	•
12	•	•	•	•	•	•	•
13	•	•	•	•	•	•	•
14	•	•	•	•	•	•	•
15	•	•	•	•	•	•	•
16	•	•	•	•	•	•	•
17	•	•	•	•	•	•	•
18	•	•	•	•	•	•	•
19	•	•	•	•	•	•	•
20	•	•	•	•	•	•	•
21	•	•	•	•	•	•	•
22	•	•	•	•	•	•	•
23	•	•	•	•	•	•	•
24	•	•	•	•	•	•	•
25	•	•	•	•	•	•	•
26	•	•	•	•	•	•	•
27	•	•	•	•	•	•	•
28	•	•	•	•	•	•	•
29	•	•	•	•	•	•	•
30	•	•	•	•	•	•	•
31	•	•	•	•	•	•	•
32	•	•	•	•	•	•	•
33	•	•	•	•	•	•	•
34	•	•	•	•	•	•	•
35	•	•	•	•	•	•	•
36	•	•	•	•	•	•	•
37	•	•	•	•	•	•	•
38	•	•	•	•	•	•	•
39	•	•	•	•	•	•	•
40	•	•	•	•	•	•	•
41	•	•	•	•	•	•	•
42	•	•	•	•	•	•	•
43	•	•	•	•	•	•	•
44	•	•	•	•	•	•	•
45	•	•	•	•	•	•	•
46	•	•	•	•	•	•	•
47	•	•	•	•	•	•	•
48	•	•	•	•	•	•	•
49	•	•	•	•	•	•	•
50	•	•	•	•	•	•	•
51	•	•	•	•	•	•	•
52	•	•	•	•	•	•	•
53	•	•	•	•	•	•	•
54	•	•	•	•	•	•	•
55	•	•	•	•	•	•	•
56	•	•	•	•	•	•	•
57	•	•	•	•	•	•	•
58	•	•	•	•	•	•	•
59	•	•	•	•	•	•	•
60	•	•	•	•	•	•	•
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68	•	•	•	•	•	•	•
69	•	•	•	•	•	•	•
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73	•	•	•	•	•	•	•
74	•	•	•	•	•	•	•
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78	•	•	•	•	•	•	•
79	•	•	•	•	•	•	•
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89	•	•	•	•	•	•	•
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94	•	•	•	•	•	•	•
95	•	•	•	•	•	•	•
96	•	•	•	•	•	•	•
97	•	•	•	•	•	•	•
98	•	•	•	•	•	•	•
99	•	•	•	•	•	•	•
100	•	•	•	•	•	•	•

NAVWEATHER FORM



## SKY COVER

PERCENTAGE FREQUENCY OF OCCURRENCE  
FROM HOURLY OBSERVATIONS

STATION	PERCENTAGE FREQUENCY OF TENTHS OF TOTAL SKY COVER										MEAN TENTHS OF SKY COVER
	0	1	2	3	4	5	6	7	8	9	
1	•										•
2											•
3											•
4											•
5											•
6											•
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100											•

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PERCENTAGE FREQUENCY OF OCCURRENCE  
FROM HOURLY OBSERVATIONS

J. A. McLELLIN ET AL.

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SUMMARY OF METEOROLOGICAL OBSERVATIONS SURFACE (SMOS)  
NEW RIVER NORTH CAROLINA (U) NAVAL OCEANOGRAPHY COMMAND  
DETACHMENT ASHEVILLE NC AUG 84

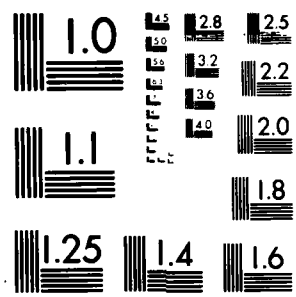
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MICROCOPY RESOLUTION TEST CHART  
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STATION

STATION NAME

PERIOD

MONTH

1

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NAVWEASERVCOM

# SKY COVER

97727 NE. RIVER, W

73-82

ALL

STATION

STATION NAME

PERIOD

MONTH

## PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

MONTH	HOURS (L.S.T.)	PERCENTAGE FREQUENCY OF TENTHS OF TOTAL SKY COVER										MEAN TENTHS OF SKY COVER	TOTAL NO. OF OBS.	
		0	1	2	3	4	5	6	7	8	9			10
JAN	ALL	24.1			15.8						14.9	36.2	5.9	2430
FEB		25.7			22.0						16.8	33.5	5.7	2256
MAR		21.5			20.4						19.4	38.0	6.2	2490
APR		27.3			22.9						22.9	27.0	5.4	2400
MAY		14.6			24.6						29.8	31.0	5.5	2479
JUN		10.7			25.7						34.4	29.2	6.8	2430
JUL		9.4			27.7						35.2	27.7	6.9	2435
AUG		9.4			30.5						35.2	24.9	6.6	2447
SEP		11.5			28.5						33.1	26.8	6.5	2410
OCT		32.3			25.7						22.2	21.9	5.0	2482
NOV		24.9			23.5						20.1	26.4	5.2	2400
DEC		20.1			21.8						14.2	33.5	5.7	2470
TOTALS		23.2			24.4						25.7	29.7	5.0	29205

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NOOD, Federal Building  
Asheville, N. C.

## PART E PSYCHROMETRIC SUMMARIES

In this section are presented various summaries of dry- and wet-bulb temperatures, dew points, and relative humidity. The order and manner of presentation follows:

1. Cumulative percentage frequency of occurrence - derived from daily observations and presented by month and annual for all years combined. These tabulations provide the cumulative percentage frequency to tenths of temperature by 5-degree Fahrenheit increments, plus mean temperature, standard deviation, and total number of observations in three separate tables as follows:
  - a. Daily maximum temperature
  - b. Daily minimum temperature
  - c. Daily mean temperature
2. Extreme values - derived from daily observations with extreme value given for each year and month of record available. Extremes are provided for a month if all days for a month contain valid observations. All months for a year must have valid extremes before the ANNUAL value is selected for that year. Means and standard deviations are computed for months and annual when four or more values are present for any column. Two tables of daily extreme temperatures are prepared:
  - a. Extreme maximum temperature
  - b. Extreme minimum temperature

NOTE: A supplementary list also provides extreme temperatures when less than a full month is reported.
3. Bivariate percentage frequency distribution and computations of dry-bulb versus wet-bulb temperature. This tabulation is derived from 3-hourly observations and is presented by month and annual, all hours and all years combined. The following information is provided:
  - a. The main body of the summary consists of a bivariate percentage frequency distribution of wet-bulb depression in 17 classes spread horizontally; by 2-degree intervals of dry-bulb temperature vertically. Also provided for each dry-bulb temperature interval is the total no. of observations with dry-bulb and wet-bulb temperature combined; and again for dry-bulb, wet-bulb, and dew-point temperatures separately. Total observations for these four items is also provided in two lines at end of each tabulation table, which may require two pages in some cases.

NOTE: A percentage frequency in this table of ".0" represents one or more occurrences amounting to less than .05 percent.

- b. Statistical data for the individual elements of relative humidity, dry-bulb, wet-bulb, and dew-point temperatures are shown in the section at the bottom left of the forms. These consist of the sum of squares ( $\sum X^2$ ), sums of values ( $\sum X$ ), means ( $\bar{X}$ ), and standard deviations ( $\sigma x$ ). The number of observations used in the computations for each element is also shown.
- c. At the lower right of the form are given the mean number of hours of occurrence for six ranges of dry-bulb, wet-bulb, and dew-point temperatures, and total number of hours possible in the period represented. Mean number of hours is shown to tenths and indicates mean number of hours per year in the annual summary, or mean number of hours per month in the tabulations by month.

NOTE: Wet-bulb temperature usually was not reported prior to 1946. Relative humidity usually was not reported prior to 1949, nor subsequent to June 1958; and was computed by machine methods for observations recorded during these periods. All values of dew-point temperature and relative humidity are with respect to water, unless otherwise indicated.

4. Means and standard deviations - These tabulations are derived from hourly observations and present the mean, standard deviation, and total number of observations for the eight standard 3-hour groups, by month and annual and again at the bottom for all hours combined. Records for all years available are combined. Tables are prepared for the following:
  - a. Dry-bulb temperature
  - b. Wet-bulb temperature
  - c. Dew-point temperature
5. Cumulative percentage frequency of occurrence of relative humidity - This summary is derived from hourly observations and presents the cumulative percentage frequency of occurrence of relative humidity by increments of 10% classes, plus the mean relative humidity and total number of observations in two tables.
  - a. Table 1 is prepared by month and annual, all years combined, with month being the vertical argument.
  - b. Table 2 is prepared by month by standard 3-hour groups, with the hour groups being the vertical argument and a separate page for each month. All years are also combined for this summary.
6. Percentage frequency of occurrence of dry-bulb temperature versus wind direction - This tabulation is derived from hourly observations and is presented by month and annual, all hours and years combined. The main body of the summary consists of dry-bulb temperatures spread vertically in four degree increments and horizontally by eight wind directions (plus calm).



STATION NAME

YEARS

## 19247

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# DAILY TEMPERATURES

STATION

STATION NAME

YEARS

CUMULATIVE PERCENTAGE FREQUENCY OF OCCURRENCE  
(FROM DAILY OBSERVATIONS)

TEMP (°F)	JAN.	FEB.	MAR.	APR.	MAY	JUN.	JUL.	AUG.	SEP.	OCT.	NOV.	DEC.	ANNUAL
1													
2													
3													
4													
5													
6													
7													
8													
9													
10													
11													
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13													
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NAVWEASERVCOM

## DAILY TEMPERATURES

STATION

STATION NAME

**YEARS**

CUMULATIVE PERCENTAGE FREQUENCY OF OCCURRENCE  
(FROM DAILY OBSERVATIONS)

[illegible]

NAVWEASERVCOM

4

NAVAL WEATHER SERVICE DETACHMENT  
ASHEVILLE, NORTH CAROLINA

## DAILY AVERAGE/EXTREME TEMPERATURES

STATION

STATION NAME

YEARS

MONTH

DAY	MEAN TEMP AVERAGE		MAXIMUM TEMP				DATE	MINIMUM TEMP				DATE
	F	°C	AVERAGE	EXTREME	F	°C		AVERAGE	EXTREME	F	°C	
1	7.1	4.5	5.7	17.7	7	21.4	1977	34.7	1.7	1	-7.1	1977
2	4.1	4.7	3.3	11.3	7	21.4	1977	34.7	1.7	1	-7.1	1977
3	3.1	5.4	3.3	12.1	7	21.4	1977	34.7	1.7	1	-7.1	1977
4	4.1	7.2	4.7	12.7	7	24.4	1977	34.1	1.7	1	-7.1	1977
5	6.1	5.4	5.1	10.7	7	23.7	1977	32.3	1.7	1	-7.1	1977
6	7.1	6.4	6.7	12.7	7	27.7	1977	37.7	1.7	1	-7.4	1977
7	4.1	7.7	5.4	13.7	7	27.7	1977	36.7	1.7	1	-7.4	1977
8	7.4	5.7	7.7	13.7	7	27.7	1977	37.7	1.7	1	-7.4	1977
9	1.1	5.5	2.1	11.1	7	27.7	1977	31.7	-1.7	1	-11.7	1977
10	1.2	5.1	2.1	11.1	7	27.7	1977	31.7	-1.7	1	-12.7	1977
11	1.2	5.1	2.7	12.4	7	27.7	1977	31.7	-1.7	1	-12.7	1977
12	7.1	4.1	7.7	2.6	7	27.7	1977	32.7	1.1	1	-12.7	1977
13	3.1	5.7	4.7	12.3	7	27.7	1977	32.7	1.7	1	-11.7	1977
14	3.1	5.7	5.4	11.7	7	21.1	1977	34.1	1.7	1	-7.7	1977
15	7.1	5.7	7.2	11.2	7	27.7	1977	34.4	1.7	1	-7.4	1977
16	7.1	4.7	1.2	17.7	7	27.7	1977	37.7	-1.7	1	-7.4	1977
17	7.1	4.4	1.2	17.7	7	27.7	1977	34.7	-1.7	1	-11.7	1977
18	7.1	5.6	2.4	11.7	6	20.1	1977	31.7	-1.7	1	-7.4	1977
19	7.1	5.6	1.7	10.7	7	22.7	1977	32.7	1.4	1	-1.7	1977
20	7.1	5.1	3.7	12.1	7	21.1	1977	32.7	1.1	1	-7.7	1977
21	13.1	5.4	7.5	11.7	7	27.7	1977	33.7	1.7	1	-7.7	1977
22	4.1	7.1	5.7	12.7	7	27.7	1977	34.7	1.7	1	-11.7	1977
23	7.1	7.3	7.1	13.7	7	27.7	1977	35.6	2.0	1	-7.4	1977
24	7.1	7.3	7.7	13.7	7	27.7	1977	35.3	1.7	1	-7.4	1977
25	7.1	7.7	5.1	13.4	7	24.4	1977	36.5	2.7	1	-6.9	1977
26	7.1	5.6	5.1	14.5	7	24.4	1977	36.5	2.7	1	-7.4	1977
27	7.1	5.7	7.7	13.7	7	27.7	1977	37.7	2.7	1	-7.4	1977
28	4.1	6.7	6.7	12.7	7	27.7	1977	33.7	1.7	1	-7.7	1977
29	4.1	7.2	5.4	13.7	7	27.7	1977	34.7	1.7	1	-7.7	1977
30	4.1	6.5	4.7	12.7	7	27.7	1977	34.7	1.7	1	-7.7	1977
31	7.1	5.1	7.7	11.7	7	27.7	1977	32.7	1.7	1	-7.4	1977
Monthly	7.1	5.5	3.7	12.1	7	27.7	1977	33.7	1.7	1	-11.7	1977

\*ALSO ON EARLIER YEARS

DIRNAVOCEANMET-SMOS

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NAVAL WEATHER SERVICE DETACHMENT  
ASHEVILLE, NORTH CAROLINA

# DAILY AVERAGE/EXTREME TEMPERATURES

STATION STATION NAME YEARS MONTH

DAY	MEAN TEMP		MAXIMUM TEMP						MINIMUM TEMP			
	AVERAGE		AVERAGE		EXTREME		DATE	AVERAGE		EXTREME		DATE
	°F	°C	°F	°C	°F	°C		°F	°C	°F	°C	
1	4.1	7.7	11.9	13.7	72	29.4	1962	27.7	1.1	1	-1.4	1962
2	4.1	7.1	13.7	12.1	71	22.7	1962	27.7	1.1	1	-1.4	1962
3	3.1	6.2	13.1	11.7	70	27.8	1962	23.7	1.1	1	-1.4	1962
4	3.1	5.7	10.6	11.4	71	26.9	1962	27.7	1.1	1	-1.4	1962
5	4.0	6.8	10.8	12.1	72	26.8	1975	23.1	1.1	1	-1.4	1962
6	3.1	7.7	10.7	13.1	74	26.7	1964	26.7	1.1	1	-1.4	1962
7	4.2	7.4	14.1	12.3	61	21.4	1965	26.7	1.1	1	-1.4	1977
8	3.4	6.3	13.4	11.1	71	23.7	1965	23.1	1.1	1	-1.4	1977
9	3.1	6.3	14.4	12.1	70	23.3	1967	23.1	1.1	1	-1.4	1977
10	3.1	6.7	14.4	12.4	70	22.3	1965	23.1	1.1	1	-1.4	1977
11	4.1	7.6	12.6	12.2	71	21.8	1965	23.7	1.1	1	-1.4	1977
12	4.1	6.2	11.3	12.1	72	21.7	1967	23.1	1.1	1	-1.4	1977
13	3.1	6.6	14.6	12.7	71	24.4	1976	23.1	1.1	1	-1.4	1977
14	4.1	7.3	10.7	13.7	71	21.8	1961	23.8	1.1	1	-1.4	1977
15	3.1	7.1	10.4	15.7	72	22.7	1977	23.4	1.1	1	-1.4	1977
16	4.2	8.7	12.7	15.3	71	20.1	1976	22.4	1.1	1	-1.4	1977
17	4.1	7.8	10.7	12.3	62	27.8	1976	24.5	1.1	1	-1.4	1977
18	3.1	8.2	10.7	13.3	62	26.7	1976	26.7	1.1	1	-1.4	1977
19	3.1	9.1	10.7	15.7	71	26.6	1961	26.7	1.1	1	-1.4	1977
20	4.1	7.7	10.7	13.1	71	1.7	1971	27.7	1.1	1	-1.4	1977
21	3.1	7.8	17.4	14.1	71	2.1	1967	24.7	1.1	1	-1.4	1977
22	3.1	8.7	17.8	14.3	71	27.7	1977	27.4	1.1	1	-1.4	1977
23	3.4	8.1	11.1	15.1	62	27.3	1977	27.7	1.1	1	-1.4	1977
24	1.1	10.7	12.3	17.1	66	1.7	1967	4.4	4.7	1	-1.4	1977
25	3.1	9.7	10.6	15.7	71	27.7	1977	38.1	1.1	1	-1.4	1977
26	3.1	8.7	10.7	14.3	62	27.6	1977	38.1	1.1	1	-1.4	1977
27	3.1	10.4	10.6	14.7	62	26.7	1972	25.1	2.7	1	-1.4	1977
28	3.1	10.4	10.1	16.7	61	26.9	1962	26.4	1.1	1	-1.4	1977
29	3.1	8.4	10.4	14.1	71	24.4	1975	27.1	2.7	1	-1.4	1977
30												
31												
Monthly	3.1	7.4	10.7	13.1	61	2.1	1962	35.5	1.1	1	-10.4	1977

\*ALSO ON EARLIER YEARS

DIRNAVOCEANMET-SMOS

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NAVAL WEATHER SERVICE DETACHMENT  
ASHEVILLE, NORTH CAROLINA

# DAILY AVERAGE/EXTREME TEMPERATURES

STATION			STATION NAME			YEARS			MONTH		
DAY	MEAN TEMP		MAXIMUM TEMP						MINIMUM TEMP		
	AVERAGE		AVERAGE		EXTREME		DATE	AVERAGE		EXTREME	
	F	C	F	C	F	C		F	C	F	C
1	6.4	9.7	6.7	14.7	41	10.7	1974	10.0	5.7	10.0	5.7
2	6.7	10.0	6.3	14.7	40	10.7	1974	10.0	5.7	10.0	5.7
3	6.7	11.1	6.7	17.3	37	10.7	1974	10.0	5.7	10.0	5.7
4	6.3	11.2	6.7	17.7	36	10.7	1974	10.0	5.7	10.0	5.7
5	6.7	12.7	6.4	15.7	37	10.7	1974	10.0	5.7	10.0	5.7
6	6.7	11.7	6.7	16.7	40	10.7	1974	10.0	5.7	10.0	5.7
7	6.7	10.4	6.7	17.7	40	10.7	1974	10.0	5.7	10.0	5.7
8	6.7	10.2	6.7	14.7	40	11.1	1974	10.0	5.7	10.0	5.7
9	6.7	9.7	6.7	15.7	41	10.7	1974	10.0	5.7	10.0	5.7
10	6.7	10.2	6.7	15.4	41	10.7	1974	10.0	5.7	10.0	5.7
11	6.7	11.2	6.7	17.7	70	10.7	1967	10.0	5.7	10.0	5.7
12	6.7	7.7	6.7	16.7	40	10.7	1967	10.0	5.7	10.0	5.7
13	6.7	17.3	6.7	15.4	7	10.7	1967	10.0	5.7	10.0	5.7
14	6.7	10.7	6.7	17.7	40	10.7	1967	10.0	5.7	10.0	5.7
15	6.7	10.7	6.4	17.7	40	10.7	1967	10.0	5.7	10.0	5.7
16	6.7	17.3	6.7	15.7	3	10.7	1967	10.0	5.7	10.0	5.7
17	6.7	10.7	6.7	16.7	40	10.7	1967	10.0	5.7	10.0	5.7
18	6.7	17.7	6.7	16.7	41	10.7	1967	10.0	5.7	10.0	5.7
19	6.7	11.7	6.7	17.7	4	10.7	1967	10.0	5.7	10.0	5.7
20	6.7	11.7	6.7	17.4	7	10.7	1967	10.0	5.7	10.0	5.7
21	6.7	10.7	6.7	17.3	40	10.7	1967	10.0	5.7	10.0	5.7
22	6.4	11.1	6.7	17.7	70	10.7	1967	10.0	5.7	10.0	5.7
23	6.7	10.7	6.7	16.7	10	10.7	1967	10.0	5.7	10.0	5.7
24	6.7	10.1	6.4	19.1	3	10.7	1967	10.0	5.7	10.0	5.7
25	6.4	11.1	6.7	17.7	7	10.7	1967	10.0	5.7	10.0	5.7
26	6.7	10.7	6.7	17.7	7	10.7	1967	10.0	5.7	10.0	5.7
27	6.7	11.7	6.7	17.7	7	10.7	1967	10.0	5.7	10.0	5.7
28	6.7	17.3	6.4	17.7	41	10.7	1967	10.0	5.7	10.0	5.7
29	6.7	14.7	6.7	20.4	2	10.7	1967	10.0	5.7	10.0	5.7
30	6.7	14.7	6.7	17.7	67	10.7	1967	10.0	5.7	10.0	5.7
31	6.7	14.1	6.7	19.7	2	10.7	1967	10.0	5.7	10.0	5.7
Monthly	6.7	11.7	6.7	17.7	67	11.1	1974	10.0	5.7	10.0	5.7

\*ALSO ON EARLIER YEARS

DIRNAVOCEANMET-SMOS

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NAVAL WEATHER SERVICE DETACHMENT  
ASHEVILLE NORTH CAROLINA

# DAILY AVERAGE/EXTREME TEMPERATURES

STATION NO.		STATION NAME						YEARS		MONTH	
DAY	MEAN TEMP AVERAGE		AVERAGE		MAXIMUM TEMP EXTREME		DATE	AVERAGE		MINIMUM TEMP EXTREME	
	F	C	F	C	F	C		F	C	F	C
1	54.0	12.2	54.0	12.2	54.0	12.2	1974	54.0	12.2	54.0	12.2
2	54.0	12.2	54.0	12.2	54.0	12.2	1974	54.0	12.2	54.0	12.2
3	54.0	12.2	54.0	12.2	54.0	12.2	1974	54.0	12.2	54.0	12.2
4	54.0	12.2	54.0	12.2	54.0	12.2	1974	54.0	12.2	54.0	12.2
5	54.0	12.2	54.0	12.2	54.0	12.2	1974	54.0	12.2	54.0	12.2
6	54.0	12.2	54.0	12.2	54.0	12.2	1974	54.0	12.2	54.0	12.2
7	54.0	12.2	54.0	12.2	54.0	12.2	1974	54.0	12.2	54.0	12.2
8	54.0	12.2	54.0	12.2	54.0	12.2	1974	54.0	12.2	54.0	12.2
9	54.0	12.2	54.0	12.2	54.0	12.2	1974	54.0	12.2	54.0	12.2
10	54.0	12.2	54.0	12.2	54.0	12.2	1974	54.0	12.2	54.0	12.2
11	54.0	12.2	54.0	12.2	54.0	12.2	1974	54.0	12.2	54.0	12.2
12	54.0	12.2	54.0	12.2	54.0	12.2	1974	54.0	12.2	54.0	12.2
13	54.0	12.2	54.0	12.2	54.0	12.2	1974	54.0	12.2	54.0	12.2
14	54.0	12.2	54.0	12.2	54.0	12.2	1974	54.0	12.2	54.0	12.2
15	54.0	12.2	54.0	12.2	54.0	12.2	1974	54.0	12.2	54.0	12.2
16	54.0	12.2	54.0	12.2	54.0	12.2	1974	54.0	12.2	54.0	12.2
17	54.0	12.2	54.0	12.2	54.0	12.2	1974	54.0	12.2	54.0	12.2
18	54.0	12.2	54.0	12.2	54.0	12.2	1974	54.0	12.2	54.0	12.2
19	54.0	12.2	54.0	12.2	54.0	12.2	1974	54.0	12.2	54.0	12.2
20	54.0	12.2	54.0	12.2	54.0	12.2	1974	54.0	12.2	54.0	12.2
21	54.0	12.2	54.0	12.2	54.0	12.2	1974	54.0	12.2	54.0	12.2
22	54.0	12.2	54.0	12.2	54.0	12.2	1974	54.0	12.2	54.0	12.2
23	54.0	12.2	54.0	12.2	54.0	12.2	1974	54.0	12.2	54.0	12.2
24	54.0	12.2	54.0	12.2	54.0	12.2	1974	54.0	12.2	54.0	12.2
25	54.0	12.2	54.0	12.2	54.0	12.2	1974	54.0	12.2	54.0	12.2
26	54.0	12.2	54.0	12.2	54.0	12.2	1974	54.0	12.2	54.0	12.2
27	54.0	12.2	54.0	12.2	54.0	12.2	1974	54.0	12.2	54.0	12.2
28	54.0	12.2	54.0	12.2	54.0	12.2	1974	54.0	12.2	54.0	12.2
29	54.0	12.2	54.0	12.2	54.0	12.2	1974	54.0	12.2	54.0	12.2
30	54.0	12.2	54.0	12.2	54.0	12.2	1974	54.0	12.2	54.0	12.2
31	54.0	12.2	54.0	12.2	54.0	12.2	1974	54.0	12.2	54.0	12.2
Monthly	54.0	12.2	54.0	12.2	54.0	12.2	1974	54.0	12.2	54.0	12.2

\*ALSO ON EARLIER YEARS

DIRNAVOCEANMET-SMOS

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 NAVAL WEATHER SERVICE DETACHMENT  
 ASHEVILLE, NORTH CAROLINA

# DAILY AVERAGE/EXTREME TEMPERATURES

STATION		STATION NAME		YEARS		DATE	
MEAN TEMP		AVERAGE		MAXIMUM TEMP		MINIMUM TEMP	
AVERAGE		AVERAGE		EXTREME		AVERAGE	
DAY	F	C	F	C	F	C	DATE
1							
2							
3							
4							
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Month							

\* ALSO ON EARLIER YEARS

DIRNAVOCEANMET-SMOS



4

NAVAL WEATHER SERVICE DETACHMENT  
ASHEVILLE, NORTH CAROLINA

# DAILY AVERAGE/EXTREME TEMPERATURES

STATION		STATION NAME				YEARS				MONTH				
DAY	MEAN TEMP		MAXIMUM TEMP				MINIMUM TEMP				DATE	F	C	
	AVERAGE		AVERAGE		EXTREME		AVERAGE		EXTREME					
	F	C	F	C	F	C	F	C	F	C				
1	.	22.1	7.2	20.9	47	11.1	1-1	4.1	4.5	4	4.4	1-1	4.1	4.5
2	.	22.2	7.3	20.9	47	11.1	1-1	4.1	4.5	4	4.4	1-1	4.1	4.5
3	.	22.2	7.3	20.9	47	11.1	1-1	4.1	4.5	4	4.4	1-1	4.1	4.5
4	.	22.2	7.4	20.9	47	11.1	1-1	4.1	4.5	4	4.4	1-1	4.1	4.5
5	.	22.2	7.5	20.9	47	11.1	1-1	4.1	4.5	4	4.4	1-1	4.1	4.5
6	.	22.2	4.6	20.9	47	11.1	1-1	4.1	4.5	4	4.4	1-1	4.1	4.5
7	.	22.2	4.6	20.9	47	11.1	1-1	4.1	4.5	4	4.4	1-1	4.1	4.5
8	.	22.1	4.6	20.9	47	11.1	1-1	4.1	4.5	4	4.4	1-1	4.1	4.5
9	.	22.4	7.1	20.9	47	11.1	1-1	4.1	4.5	4	4.4	1-1	4.1	4.5
10	.	22.4	7.7	20.9	47	11.1	1-1	4.1	4.5	4	4.4	1-1	4.1	4.5
11	.	22.4	8.7	20.9	47	11.1	1-1	4.1	4.5	4	4.4	1-1	4.1	4.5
12	.	22.1	4.7	20.9	47	11.1	1-1	4.1	4.5	4	4.4	1-1	4.1	4.5
13	.	22.1	5.7	20.9	47	11.1	1-1	4.1	4.5	4	4.4	1-1	4.1	4.5
14	.	22.1	5.7	20.9	47	11.1	1-1	4.1	4.5	4	4.4	1-1	4.1	4.5
15	.	24.1	5.8	20.9	47	11.1	1-1	4.1	4.5	4	4.4	1-1	4.1	4.5
16	.	24.1	4.6	20.9	47	11.1	1-1	4.1	4.5	4	4.4	1-1	4.1	4.5
17	.	24.1	5.7	20.9	47	11.1	1-1	4.1	4.5	4	4.4	1-1	4.1	4.5
18	.	23.7	5.7	20.9	47	11.1	1-1	4.1	4.5	4	4.4	1-1	4.1	4.5
19	.	22.7	5.2	20.9	47	11.1	1-1	4.1	4.5	4	4.4	1-1	4.1	4.5
20	.	22.3	5.6	20.9	47	11.1	1-1	4.1	4.5	4	4.4	1-1	4.1	4.5
21	.	22.2	5.6	20.9	47	11.1	1-1	4.1	4.5	4	4.4	1-1	4.1	4.5
22	7.	22.2	5.6	20.9	47	11.1	1-1	4.1	4.5	4	4.4	1-1	4.1	4.5
23	7.	22.1	5.7	20.9	47	11.1	1-1	4.1	4.5	4	4.4	1-1	4.1	4.5
24	7.	22.1	5.7	20.9	47	11.1	1-1	4.1	4.5	4	4.4	1-1	4.1	4.5
25	7.	22.7	5.6	20.9	47	11.1	1-1	4.1	4.5	4	4.4	1-1	4.1	4.5
26	7.	22.3	5.7	20.9	47	11.1	1-1	4.1	4.5	4	4.4	1-1	4.1	4.5
27	7.	22.3	5.7	20.9	47	11.1	1-1	4.1	4.5	4	4.4	1-1	4.1	4.5
28	7.	22.3	5.7	20.9	47	11.1	1-1	4.1	4.5	4	4.4	1-1	4.1	4.5
29	7.	22.6	5.7	20.9	47	11.1	1-1	4.1	4.5	4	4.4	1-1	4.1	4.5
30	7.	25.7	7.2	20.9	47	11.1	1-1	4.1	4.5	4	4.4	1-1	4.1	4.5
31														
Monthly	.	22.4	4.7	20.9	47	11.1	1-1	4.1	4.5	4	4.4	1-1	4.1	4.5

\*ALSO ON EARLIER YEARS

DIRNAVOCEANMET-SMOS

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NAVAL WEATHER SERVICE DETACHMENT  
ASHEVILLE, NORTH CAROLINA

## DAILY AVERAGE/EXTREME TEMPERATURES

STATION		STATION NAME		YEARS		MONTH				
DAY	MEAN TEMP		MAXIMUM TEMP				MINIMUM TEMP			
	AVERAGE		AVERAGE		EXTREME		AVERAGE		EXTREME	
	F	C	F	C	F	C	F	C	F	C
1	70.1	21.2	70.1	21.2	70.1	21.2	69.7	20.9	70.1	21.2
2	70.1	21.2	70.1	21.2	70.1	21.2	69.7	20.9	70.1	21.2
3	70.1	21.2	70.1	21.2	70.1	21.2	69.7	20.9	70.1	21.2
4	70.1	21.2	70.1	21.2	70.1	21.2	69.7	20.9	70.1	21.2
5	70.1	21.2	70.1	21.2	70.1	21.2	69.7	20.9	70.1	21.2
6	70.1	21.2	70.1	21.2	70.1	21.2	69.7	20.9	70.1	21.2
7	70.1	21.2	70.1	21.2	70.1	21.2	69.7	20.9	70.1	21.2
8	70.1	21.2	70.1	21.2	70.1	21.2	69.7	20.9	70.1	21.2
9	70.1	21.2	70.1	21.2	70.1	21.2	69.7	20.9	70.1	21.2
10	70.1	21.2	70.1	21.2	70.1	21.2	69.7	20.9	70.1	21.2
11	70.1	21.2	70.1	21.2	70.1	21.2	69.7	20.9	70.1	21.2
12	70.1	21.2	70.1	21.2	70.1	21.2	69.7	20.9	70.1	21.2
13	70.1	21.2	70.1	21.2	70.1	21.2	69.7	20.9	70.1	21.2
14	70.1	21.2	70.1	21.2	70.1	21.2	69.7	20.9	70.1	21.2
15	70.1	21.2	70.1	21.2	70.1	21.2	69.7	20.9	70.1	21.2
16	70.1	21.2	70.1	21.2	70.1	21.2	69.7	20.9	70.1	21.2
17	70.1	21.2	70.1	21.2	70.1	21.2	69.7	20.9	70.1	21.2
18	70.1	21.2	70.1	21.2	70.1	21.2	69.7	20.9	70.1	21.2
19	70.1	21.2	70.1	21.2	70.1	21.2	69.7	20.9	70.1	21.2
20	70.1	21.2	70.1	21.2	70.1	21.2	69.7	20.9	70.1	21.2
21	70.1	21.2	70.1	21.2	70.1	21.2	69.7	20.9	70.1	21.2
22	70.1	21.2	70.1	21.2	70.1	21.2	69.7	20.9	70.1	21.2
23	70.1	21.2	70.1	21.2	70.1	21.2	69.7	20.9	70.1	21.2
24	70.1	21.2	70.1	21.2	70.1	21.2	69.7	20.9	70.1	21.2
25	70.1	21.2	70.1	21.2	70.1	21.2	69.7	20.9	70.1	21.2
26	70.1	21.2	70.1	21.2	70.1	21.2	69.7	20.9	70.1	21.2
27	70.1	21.2	70.1	21.2	70.1	21.2	69.7	20.9	70.1	21.2
28	70.1	21.2	70.1	21.2	70.1	21.2	69.7	20.9	70.1	21.2
29	70.1	21.2	70.1	21.2	70.1	21.2	69.7	20.9	70.1	21.2
30	70.1	21.2	70.1	21.2	70.1	21.2	69.7	20.9	70.1	21.2
31	70.1	21.2	70.1	21.2	70.1	21.2	69.7	20.9	70.1	21.2
Monthly	70.1	21.2	70.1	21.2	70.1	21.2	69.7	20.9	70.1	21.2

\*ALSO ON EARLIER YEARS

DIRNAVOCEANMET-SMOS

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NAVAL WEATHER SERVICE DETACHMENT  
ASHEVILLE, NORTH CAROLINA

# DAILY AVERAGE/EXTREME TEMPERATURES

STATION

STATION NAME

YEARS

MONTH

DAY	MEAN TEMP		MAXIMUM TEMP				MINIMUM TEMP				DATE	
	AVERAGE		AVERAGE		EXTREME		AVERAGE		EXTREME			
	F	C	F	C	F	C	F	C	F	C		
1	.	25.3	6.7	31.3	100	37.8	1977	22.7	22.4	65	18.9	1977
2	.	25.2	6.2	31.3	94	37.8	1977	22.7	22.2	65	18.9	1977
3	.	25.1	6.4	31.3	97	37.8	1977	22.7	22.4	65	18.9	1977
4	.	25.1	6.1	31.3	97	37.8	1977	22.7	22.4	65	18.9	1977
5	.	25.7	6.8	31.3	94	37.8	1977	22.7	22.4	65	18.9	1977
6	1	25.7	6.5	31.3	97	37.8	1977	22.7	22.2	65	18.9	1977
7	7	25.6	6.8	31.3	94	37.8	1977	22.7	21.7	65	18.9	1977
8	.	25.1	6.4	31.3	97	37.8	1977	22.1	22.3	65	18.9	1977
9	1	25.3	6.5	31.3	94	37.7	1977	22.7	22.7	65	18.9	1977
10	.	25.3	6.6	31.4	97	37.8	1977	22.1	22.2	65	18.9	1977
11	.	25.3	7.2	32.3	97	37.8	1977	21.7	21.7	65	18.9	1977
12	7	25.3	6.7	32.1	94	37.8	1977	21.7	21.4	65	18.4	1977
13	7	25.2	6.9	32.5	94	34.4	1973	21.7	21.9	65	18.7	1977
14	.	25.3	6.5	31.3	94	37.8	1977	21.4	21.3	65	18.9	1977
15	.	25.7	6.7	31.4	97	37.8	1977	21.7	21.6	65	18.7	1977
16	.	24.3	7.3	37.7	94	34.4	1981	22.7	22.7	65	18.9	1977
17	7	25.5	6.7	32.5	94	37.8	1977	21.7	21.3	65	18.9	1977
18	7	25.2	7.6	32.5	97	37.8	1977	21.7	21.7	65	18.4	1977
19	7	25.1	7.4	32.5	94	37.8	1977	21.7	21.4	65	18.9	1977
20	.	25.3	7.2	31.3	94	37.8	1977	21.7	22.7	65	18.9	1977
21	.	25.3	7.3	32.5	97	37.8	1977	21.7	21.3	65	18.9	1977
22	.	25.3	6.7	32.1	94	37.8	1977	21.7	21.7	65	18.7	1977
23	.	25.1	6.8	32.4	94	37.8	1977	21.7	21.4	65	18.7	1977
24	.	25.7	6.7	32.5	97	37.8	1977	21.7	21.7	65	18.9	1977
25	7	25.4	4.2	29.3	94	34.4	1982	21.7	21.7	65	18.9	1977
26	7	25.3	6.5	32.7	97	37.8	1977	62.5	21.7	65	18.9	1977
27	7	25.2	6.4	29.3	97	37.8	1977	64.9	21.1	65	18.7	1977
28	7	25.7	6.4	32.5	97	37.8	1977	7.7	21.2	65	18.9	1977
29	7	25.4	6.1	32.1	97	37.8	1977	6.4	21.7	65	18.4	1977
30	7	25.7	7.6	32.5	97	34.4	1977	65.1	21.7	65	18.9	1977
31	7	25.7	7.2	32.5	97	37.8	1977	21.7	21.2	65	18.9	1977
Monthly	.	25.7	7.4	32.5	10	37.8	18	21.1	21.7	65	18.9	1977

\*ALSO ON EARLIER YEARS

DIRNAVOCEANMET-SMOS

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NAVAL WEATHER SERVICE DETACHMENT  
ASHEVILLE NORTH CAROLINA

# DAILY AVERAGE/EXTREME TEMPERATURES

STATION	STATION NAME						YEARS	MONTH			
DAY	MEAN TEMP AVERAGE		MAXIMUM TEMP AVERAGE EXTREME				DATE	MINIMUM TEMP AVERAGE EXTREME		DATE	
	F	C	F	C	F	C		F	C		
1	7.0	4.4	10.7	10.3	17.0	12.8	192	6.0	1.1	1.7	192
2	7.0	4.4	10.7	10.3	17.0	12.8	193	6.0	1.1	1.7	193
3	7.0	4.4	10.7	10.3	17.0	12.8	194	6.0	1.1	1.7	194
4	7.0	4.4	10.7	10.3	17.0	12.8	195	6.0	1.1	1.7	195
5	7.0	4.4	10.7	10.3	17.0	12.8	196	6.0	1.1	1.7	196
6	7.0	4.4	10.7	10.3	17.0	12.8	197	6.0	1.1	1.7	197
7	7.0	4.4	10.7	10.3	17.0	12.8	198	6.0	1.1	1.7	198
8	7.0	4.4	10.7	10.3	17.0	12.8	199	6.0	1.1	1.7	199
9	7.0	4.4	10.7	10.3	17.0	12.8	200	6.0	1.1	1.7	200
10	7.0	4.4	10.7	10.3	17.0	12.8	201	6.0	1.1	1.7	201
11	7.0	4.4	10.7	10.3	17.0	12.8	202	6.0	1.1	1.7	202
12	7.0	4.4	10.7	10.3	17.0	12.8	203	6.0	1.1	1.7	203
13	7.0	4.4	10.7	10.3	17.0	12.8	204	6.0	1.1	1.7	204
14	7.0	4.4	10.7	10.3	17.0	12.8	205	6.0	1.1	1.7	205
15	7.0	4.4	10.7	10.3	17.0	12.8	206	6.0	1.1	1.7	206
16	7.0	4.4	10.7	10.3	17.0	12.8	207	6.0	1.1	1.7	207
17	7.0	4.4	10.7	10.3	17.0	12.8	208	6.0	1.1	1.7	208
18	7.0	4.4	10.7	10.3	17.0	12.8	209	6.0	1.1	1.7	209
19	7.0	4.4	10.7	10.3	17.0	12.8	210	6.0	1.1	1.7	210
20	7.0	4.4	10.7	10.3	17.0	12.8	211	6.0	1.1	1.7	211
21	7.0	4.4	10.7	10.3	17.0	12.8	212	6.0	1.1	1.7	212
22	7.0	4.4	10.7	10.3	17.0	12.8	213	6.0	1.1	1.7	213
23	7.0	4.4	10.7	10.3	17.0	12.8	214	6.0	1.1	1.7	214
24	7.0	4.4	10.7	10.3	17.0	12.8	215	6.0	1.1	1.7	215
25	7.0	4.4	10.7	10.3	17.0	12.8	216	6.0	1.1	1.7	216
26	7.0	4.4	10.7	10.3	17.0	12.8	217	6.0	1.1	1.7	217
27	7.0	4.4	10.7	10.3	17.0	12.8	218	6.0	1.1	1.7	218
28	7.0	4.4	10.7	10.3	17.0	12.8	219	6.0	1.1	1.7	219
29	7.0	4.4	10.7	10.3	17.0	12.8	220	6.0	1.1	1.7	220
30	7.0	4.4	10.7	10.3	17.0	12.8	221	6.0	1.1	1.7	221
31	7.0	4.4	10.7	10.3	17.0	12.8	222	6.0	1.1	1.7	222
Monthly	7.0	4.4	10.7	10.3	17.0	12.8	192-222	6.0	1.1	1.7	192-222

\*ALSO ON EARLIER YEARS

DIRNAVOCEANMET-SMOS

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NAVAL WEATHER SERVICE DETACHMENT  
ASHEVILLE, NORTH CAROLINA

## DAILY AVERAGE/EXTREME TEMPERATURES

STATION

STATION NAME

YEARS

MONTH

DAY	MEAN TEMP AVERAGE		MAXIMUM TEMP				DATE	MINIMUM TEMP				DATE
	F	C	AVERAGE	EXTREME	F	C		AVERAGE	EXTREME	F	C	
1	57.7	14.3	77.4	87	82.7	28.2	1971	51.3	11.8	4	40.0	1971
2	57.7	14.3	77.4	87	82.7	28.2	1977	51.3	11.8	4	40.0	1977
3	57.7	14.3	77.4	87	82.7	28.2	1976	51.3	11.8	4	40.0	1976
4	57.7	14.3	77.4	87	82.7	28.2	1973	51.3	11.8	4	40.0	1973
5	57.7	14.3	77.4	87	82.7	28.2	1977	51.3	11.8	4	40.0	1977
6	57.7	14.3	77.4	87	82.7	28.2	1971	51.3	11.8	4	40.0	1971
7	57.7	14.3	77.4	87	82.7	28.2	1977	51.3	11.8	4	40.0	1977
8	57.7	14.3	77.4	87	82.7	28.2	1972	51.3	11.8	4	40.0	1972
9	57.7	14.3	77.4	87	82.7	28.2	1977	51.3	11.8	4	40.0	1977
10	57.7	14.3	77.4	87	82.7	28.2	1971	51.3	11.8	4	40.0	1971
11	57.7	14.3	77.4	87	82.7	28.2	1977	51.3	11.8	4	40.0	1977
12	57.7	14.3	77.4	87	82.7	28.2	1972	51.3	11.8	4	40.0	1972
13	57.7	14.3	77.4	87	82.7	28.2	1977	51.3	11.8	4	40.0	1977
14	57.7	14.3	77.4	87	82.7	28.2	1971	51.3	11.8	4	40.0	1971
15	57.7	14.3	77.4	87	82.7	28.2	1977	51.3	11.8	4	40.0	1977
16	57.7	14.3	77.4	87	82.7	28.2	1972	51.3	11.8	4	40.0	1972
17	57.7	14.3	77.4	87	82.7	28.2	1977	51.3	11.8	4	40.0	1977
18	57.7	14.3	77.4	87	82.7	28.2	1971	51.3	11.8	4	40.0	1971
19	57.7	14.3	77.4	87	82.7	28.2	1977	51.3	11.8	4	40.0	1977
20	57.7	14.3	77.4	87	82.7	28.2	1972	51.3	11.8	4	40.0	1972
21	57.7	14.3	77.4	87	82.7	28.2	1977	51.3	11.8	4	40.0	1977
22	57.7	14.3	77.4	87	82.7	28.2	1971	51.3	11.8	4	40.0	1971
23	57.7	14.3	77.4	87	82.7	28.2	1977	51.3	11.8	4	40.0	1977
24	57.7	14.3	77.4	87	82.7	28.2	1972	51.3	11.8	4	40.0	1972
25	57.7	14.3	77.4	87	82.7	28.2	1977	51.3	11.8	4	40.0	1977
26	57.7	14.3	77.4	87	82.7	28.2	1971	51.3	11.8	4	40.0	1971
27	57.7	14.3	77.4	87	82.7	28.2	1977	51.3	11.8	4	40.0	1977
28	57.7	14.3	77.4	87	82.7	28.2	1972	51.3	11.8	4	40.0	1972
29	57.7	14.3	77.4	87	82.7	28.2	1977	51.3	11.8	4	40.0	1977
30	57.7	14.3	77.4	87	82.7	28.2	1971	51.3	11.8	4	40.0	1971
31	57.7	14.3	77.4	87	82.7	28.2	1977	51.3	11.8	4	40.0	1977
Monthly	57.7	14.3	77.4	87	82.7	28.2	1971	51.3	11.8	4	40.0	1971

\* ALSO ON EARLIER YEARS

DIRNAVOCEANMET-SMOS

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NAVAL WEATHER SERVICE DETACHMENT  
ASHEVILLE, NORTH CAROLINA

# DAILY AVERAGE/EXTREME TEMPERATURES

STATION

STATION NAME

YEARS

MONTH

DAY	MEAN TEMP		MAXIMUM TEMP				MINIMUM TEMP					
	AVERAGE		AVERAGE		EXTREME		AVERAGE		EXTREME			
	F	C	F	C	F	C	DATE	F	C	F	C	DATE
1	16.7	18.7	71.6	22.0	87	30.9	1974	47.8	11.5	7	-1.7	1974
2	16.7	18.7	72.5	22.5	87	30.9	1974	41.8	10.4	7	-1.7	1974
3	16.7	18.7	71.8	22.1	87	30.9	1974	41.1	10.4	7	-1.7	1974
4	16.7	18.7	71.9	22.2	87	30.9	1974	41.4	10.4	7	-1.7	1974
5	16.7	18.7	71.9	22.2	87	30.9	1974	41.4	10.4	7	-1.7	1974
6	16.7	18.7	71.8	22.1	87	30.9	1974	41.4	10.4	7	-1.7	1974
7	16.7	18.7	71.8	22.1	87	30.9	1974	41.4	10.4	7	-1.7	1974
8	16.7	18.7	71.8	22.1	87	30.9	1974	41.4	10.4	7	-1.7	1974
9	16.7	18.7	71.8	22.1	87	30.9	1974	41.4	10.4	7	-1.7	1974
10	16.7	18.7	71.8	22.1	87	30.9	1974	41.4	10.4	7	-1.7	1974
11	16.7	18.7	71.8	22.1	87	30.9	1974	41.4	10.4	7	-1.7	1974
12	16.7	18.7	71.8	22.1	87	30.9	1974	41.4	10.4	7	-1.7	1974
13	16.7	18.7	71.8	22.1	87	30.9	1974	41.4	10.4	7	-1.7	1974
14	16.7	18.7	71.8	22.1	87	30.9	1974	41.4	10.4	7	-1.7	1974
15	16.7	18.7	71.8	22.1	87	30.9	1974	41.4	10.4	7	-1.7	1974
16	16.7	18.7	71.8	22.1	87	30.9	1974	41.4	10.4	7	-1.7	1974
17	16.7	18.7	71.8	22.1	87	30.9	1974	41.4	10.4	7	-1.7	1974
18	16.7	18.7	71.8	22.1	87	30.9	1974	41.4	10.4	7	-1.7	1974
19	16.7	18.7	71.8	22.1	87	30.9	1974	41.4	10.4	7	-1.7	1974
20	16.7	18.7	71.8	22.1	87	30.9	1974	41.4	10.4	7	-1.7	1974
21	16.7	18.7	71.8	22.1	87	30.9	1974	41.4	10.4	7	-1.7	1974
22	16.7	18.7	71.8	22.1	87	30.9	1974	41.4	10.4	7	-1.7	1974
23	16.7	18.7	71.8	22.1	87	30.9	1974	41.4	10.4	7	-1.7	1974
24	16.7	18.7	71.8	22.1	87	30.9	1974	41.4	10.4	7	-1.7	1974
25	16.7	18.7	71.8	22.1	87	30.9	1974	41.4	10.4	7	-1.7	1974
26	16.7	18.7	71.8	22.1	87	30.9	1974	41.4	10.4	7	-1.7	1974
27	16.7	18.7	71.8	22.1	87	30.9	1974	41.4	10.4	7	-1.7	1974
28	16.7	18.7	71.8	22.1	87	30.9	1974	41.4	10.4	7	-1.7	1974
29	16.7	18.7	71.8	22.1	87	30.9	1974	41.4	10.4	7	-1.7	1974
30	16.7	18.7	71.8	22.1	87	30.9	1974	41.4	10.4	7	-1.7	1974
31	16.7	18.7	71.8	22.1	87	30.9	1974	41.4	10.4	7	-1.7	1974
Monthly	16.7	18.7	71.8	22.1	87	30.9	1974	41.4	10.4	7	-1.7	1974

\*ALSO ON EARLIER YEARS

DIRNAVOCEANMET-SMOS

NAVAL WEATHER SERVICE DETACHMENT  
ASHEVILLE, NORTH CAROLINA

# DAILY AVERAGE/EXTREME TEMPERATURES

DATE	MAXIMUM TEMPERATURE AVERAGE	MINIMUM TEMPERATURE AVERAGE	MAXIMUM TEMPERATURE EXTREME	MINIMUM TEMPERATURE EXTREME
1	5.0	2.0	14.0	-1.0
2	6.0	3.0	15.0	0.0
3	7.0	4.0	16.0	1.0
4	8.0	5.0	17.0	2.0
5	9.0	6.0	18.0	3.0
6	10.0	7.0	19.0	4.0
7	11.0	8.0	20.0	5.0
8	12.0	9.0	21.0	6.0
9	13.0	10.0	22.0	7.0
10	14.0	11.0	23.0	8.0
11	15.0	12.0	24.0	9.0
12	16.0	13.0	25.0	10.0
13	17.0	14.0	26.0	11.0
14	18.0	15.0	27.0	12.0
15	19.0	16.0	28.0	13.0
16	20.0	17.0	29.0	14.0
17	21.0	18.0	30.0	15.0
18	22.0	19.0	31.0	16.0
19	23.0	20.0	32.0	17.0
20	24.0	21.0	33.0	18.0
21	25.0	22.0	34.0	19.0
22	26.0	23.0	35.0	20.0
23	27.0	24.0	36.0	21.0
24	28.0	25.0	37.0	22.0
25	29.0	26.0	38.0	23.0
26	30.0	27.0	39.0	24.0
27	31.0	28.0	40.0	25.0
28	32.0	29.0	41.0	26.0
29	33.0	30.0	42.0	27.0
30	34.0	31.0	43.0	28.0
31	35.0	32.0	44.0	29.0
Monthly	36.0	33.0	45.0	30.0

\*ALSO ON EARLIER YEARS

DIRNAVOCEANMET-SMOS

NAVAL WEATHER SERVICE DETACHMENT  
ASHEVILLE, NORTH CAROLINA

EXTREME VALUES

RECEIVED FROM DAILY OBSERVATIONS

STATION

STATION NAME

YEARS

MONTH YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ALL MONTHS
1													
2	70			11					91	70	75		
3	6		77	7	7		4	77		74			
4		77			4	7				74	7	7	
5	67		7	24	74		74	74	74	77	77	7	
6		77	75	34	78	7	74			77		7	
7	67	77	7	74	74	77	71	74	77	77	77	77	
8	70	7	77		1	71	71	77	71	7	7	77	
9	70	77		74	6	74	75	77	77	7	77	77	
10	7	77	7	77	75	7	77	77	77	77	77	77	
11	67	71	7	77	71	74	77	77	77	77	77	77	
12	73	74	71	71	77	75	78	77	77	74	77	77	
13	77	77	77	77	77	77	77	77	77	77	77	77	
14	77	77	74	74	77	77	77	77	77	77	77	77	
15	77	77	77	77	77	77	77	77	77	77	77	77	
16	77	77	77	77	77	77	77	77	77	77	77	77	
17	77	77	77	77	77	77	77	77	77	77	77	77	
18	77	77	77	77	77	77	77	77	77	77	77	77	
19	77	77	77	77	77	77	77	77	77	77	77	77	
20	77	77	77	77	77	77	77	77	77	77	77	77	
21	77	77	77	77	77	77	77	77	77	77	77	77	
22	77	77	77	77	77	77	77	77	77	77	77	77	
23	77	77	77	77	77	77	77	77	77	77	77	77	
24	77	77	77	77	77	77	77	77	77	77	77	77	
25	77	77	77	77	77	77	77	77	77	77	77	77	
26	77	77	77	77	77	77	77	77	77	77	77	77	
27	77	77	77	77	77	77	77	77	77	77	77	77	
28	77	77	77	77	77	77	77	77	77	77	77	77	
29	77	77	77	77	77	77	77	77	77	77	77	77	
30	77	77	77	77	77	77	77	77	77	77	77	77	
31	77	77	77	77	77	77	77	77	77	77	77	77	
32	77	77	77	77	77	77	77	77	77	77	77	77	
33	77	77	77	77	77	77	77	77	77	77	77	77	
34	77	77	77	77	77	77	77	77	77	77	77	77	
35	77	77	77	77	77	77	77	77	77	77	77	77	
36	77	77	77	77	77	77	77	77	77	77	77	77	
37	77	77	77	77	77	77	77	77	77	77	77	77	
38	77	77	77	77	77	77	77	77	77	77	77	77	
39	77	77	77	77	77	77	77	77	77	77	77	77	
40	77	77	77	77	77	77	77	77	77	77	77	77	
41	77	77	77	77	77	77	77	77	77	77	77	77	
42	77	77	77	77	77	77	77	77	77	77	77	77	
43	77	77	77	77	77	77	77	77	77	77	77	77	
44	77	77	77	77	77	77	77	77	77	77	77	77	
45	77	77	77	77	77	77	77	77	77	77	77	77	
46	77	77	77	77	77	77	77	77	77	77	77	77	
47	77	77	77	77	77	77	77	77	77	77	77	77	
48	77	77	77	77	77	77	77	77	77	77	77	77	
49	77	77	77	77	77	77	77	77	77	77	77	77	
50	77	77	77	77	77	77	77	77	77	77	77	77	
51	77	77	77	77	77	77	77	77	77	77	77	77	
52	77	77	77	77	77	77	77	77	77	77	77	77	
53	77	77	77	77	77	77	77	77	77	77	77	77	
54	77	77	77	77	77	77	77	77	77	77	77	77	
55	77	77	77	77	77	77	77	77	77	77	77	77	
56	77	77	77	77	77	77	77	77	77	77	77	77	
57	77	77	77	77	77	77	77	77	77	77	77	77	
58	77	77	77	77	77	77	77	77	77	77	77	77	
59	77	77	77	77	77	77	77	77	77	77	77	77	
60	77	77	77	77	77	77	77	77	77	77	77	77	
61	77	77	77	77	77	77	77	77	77	77	77	77	
62	77	77	77	77	77	77	77	77	77	77	77	77	
63	77	77	77	77	77	77	77	77	77	77	77	77	
64	77	77	77	77	77	77	77	77	77	77	77	77	
65	77	77	77	77	77	77	77	77	77	77	77	77	
66	77	77	77	77	77	77	77	77	77	77	77	77	
67	77	77	77	77	77	77	77	77	77	77	77	77	
68	77	77	77	77	77	77	77	77	77	77	77	77	
69	77	77	77	77	77	77	77	77	77	77	77	77	
70	77	77	77	77	77	77	77	77	77	77	77	77	
71	77	77	77	77	77	77	77	77	77	77	77	77	
72	77	77	77	77	77	77	77	77	77	77	77	77	
73	77	77	77	77	77	77	77	77	77	77	77	77	
74	77	77	77	77	77	77	77	77	77	77	77	77	
75	77	77	77	77	77	77	77	77	77	77	77	77	
76	77	77	77	77	77	77	77	77	77	77	77	77	
77	77	77	77	77	77	77	77	77	77	77	77	77	
78	77	77	77	77	77	77	77	77	77	77	77	77	
79	77	77	77	77	77	77	77	77	77	77	77	77	
80	77	77	77	77	77	77	77	77	77	77	77	77	
81	77	77	77	77	77	77	77	77	77	77	77	77	
82	77	77	77	77	77	77	77	77	77	77	77	77	
83	77	77	77	77	77	77	77	77	77	77	77	77	
84	77	77	77	77	77	77	77	77	77	77	77	77	
85	77	77	77	77	77	77	77	77	77	77	77	77	
86	77	77	77	77	77	77	77	77	77	77	77	77	
87	77	77	77	77	77	77	77	77	77	77	77	77	
88	77	77	77	77	77	77	77	77	77	77	77	77	
89	77	77	77	77	77	77	77	77	77	77	77	77	
90	77	77	77	77	77	77	77	77	77	77	77	77	
91	77	77	77	77	77	77	77	77	77	77	77	77	
92	77	77	77	77	77	77	77	77	77	77	77	77	
93	77	77	77	77	77	77	77	77	77	77	77	77	
94	77	77	77	77	77	77	77	77	77	77	77	77	
95	77	77	77	77	77	77	77	77	77	77	77	77	
96	77	77	77	77	77	77	77	77	77	77	77	77	
97	77	77	77	77	77	77	77	77	77	77	77	77	
98	77	77	77	77	77	77	77	77	77	77	77	77	
99	77	77	77	77	77	77	77	77	77	77	77	77	
100	77	77	77	77	77	77	77	77	77	77	77	77	
MEAN	77.5	75.5	71.5	77.7	91.1	74.4	74.5	75.5	77.7	77.4	77.7	77.6	77.1
S.D.	4.715	4.739	4.764	4.789	4.812	4.836	4.859	4.882	4.905	4.928	4.951	4.974	4.997
TOTAL OBS	607	607	607	607	607	607	607	607	607	607	607	607	607

SMOS



NAVAL WEATHER SERVICE DETACHMENT  
ASHEVILLE, NORTH CAROLINA

# EXTREME VALUES

ALL TIME RECORDS  
FROM DAILY OBSERVATIONS

STATION

STATION NAME

YEARS

ALL RECORDS EMPLOYED  
WINDS IN LESS THAN FULL MINUTES

MONTH YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ALL MONTHS
1	7	2		2	1	2	2		2	2		2	2
2	2	2		2	2	2	2	2	2	2		2	2
3	2	2		2	2	2	2		2	2		2	2
4		2	2		2	2	2					2	2
5		2			2	2	2					2	2
6	2	2	2	2	2	2		2		2	2	2	2
7	2	2	2	2	2	2				2	2	2	2
8		2		2								2	2
9	2			2								2	2
10	2			2								2	2
11		2		2								2	2
12	2			2								2	2
13				2								2	2
14				2								2	2
15				2								2	2
16				2								2	2
17				2								2	2
18				2								2	2
19				2								2	2
20				2								2	2
21				2								2	2
22				2								2	2
23				2								2	2
24				2								2	2
25				2								2	2
26				2								2	2
27				2								2	2
28				2								2	2
29				2								2	2
30				2								2	2
31				2								2	2
32				2								2	2
33				2								2	2
34				2								2	2
35				2								2	2
36				2								2	2
37				2								2	2
38				2								2	2
39				2								2	2
40				2								2	2
41				2								2	2
42				2								2	2
43				2								2	2
44				2								2	2
45				2								2	2
46				2								2	2
47				2								2	2
48				2								2	2
49				2								2	2
50				2								2	2
51				2								2	2
52				2								2	2
53				2								2	2
54				2								2	2
55				2								2	2
56				2								2	2
57				2								2	2
58				2								2	2
59				2								2	2
60				2								2	2
61				2								2	2
62				2								2	2
63				2								2	2
64				2								2	2
65				2								2	2
66				2								2	2
67				2								2	2
68				2								2	2
69				2								2	2
70				2								2	2
71				2								2	2
72				2								2	2
73				2								2	2
74				2								2	2
75				2								2	2
76				2								2	2
77				2								2	2
78				2								2	2
79				2								2	2
80				2								2	2
81				2								2	2
82				2								2	2
83				2								2	2
84				2								2	2
85				2								2	2
86				2								2	2
87				2								2	2
88				2								2	2
89				2								2	2
90				2								2	2
91				2								2	2
92				2								2	2
93				2								2	2
94				2								2	2
95				2								2	2
96				2								2	2
97				2								2	2
98				2								2	2
99				2								2	2
100				2								2	2
MEAN													
S D													
TOTAL OBS													

SMOS

NAVAL WEATHER SERVICE DETACHMENT  
ASHEVILLE, NORTH CAROLINA

EXTREME VALUES

MINIMUM TEMPERATURE  
(FROM DAILY OBSERVATIONS)

STATION 55-47 STATION NAME YEARS

WHOLE DEGREES FAHRENHEIT

MONTH YEAR	JAN.	FEB.	MAR.	APR.	MAY	JUN.	JUL.	AUG.	SEP.	OCT.	NOV.	DEC.	ALL MONTHS
1			24								5		
2			27								5		
3	15			23				5	3	21	5		
4	15		22	34	24		1			25			
5		2	15			21		45		21	2	11	
6	14		21	34	42	5		7	24	21	25		
7		22	27	3	45	54	27	7	26	24		25	
8		1	25		22		22	22	22	24	22	12	
9	14	21	25	34	49	4	22	22	22	24	22	22	22
10	15	12	26	35	33	54	59	24	25	23	2	12	12
11	15	1	27	35	44	47	27	21	21	35	22	22	22
12	14	12	22	37	54	53	24	21	47	27	22	24	22
13	14	12	24	37	44	57		21	25	22	21	2	22
14	14	22	26	39	44	22	45	21	24	26	22	21	22
15	11	21	25	35	43	25	42	27	45	38	25	22	21
16	21	22	25	37	43	25	24	24	26	25	21	22	22
17	12	22	25	25	49	22	24	21	27	22	25	22	22
18	12	15	21	32	41	21	25	21	21	42	2	19	22
19	20	12	29	36	49	25	22	22	22	22	22	22	22
20	25	22	25	33	47	23	24	22	24	37	22	22	22
21	14	22	32	37	49	22	26	21	24	33	22	12	22
22		15	31	35	42	21	24	22	25	22	24	12	22
23	12	22	27	41	44	22		21	24	22	24	22	22
24	14	1	22	41	45	24	22	22	22	25	25	22	22
25	24	14	12	35	42	24	26	22	21	22	21	12	22
26	21	21	24	22	27	27	22	22	24	22	22	14	22
27		27	31	37	43	2	25	25	49	26	22	25	22
28													
29													
30													
31													
MEAN	1.5	14.3	15.2	22.5	44.3	55.2	72.5	61.7	52.0	34.3	22.5	10.2	14.5
S D	7.44	4.117	4.375	4.432	4.541	4.213	3.219	3.447	5.177	5.117	3.624	3.817	4.707
TOTAL OBS	6.7	22	25	699	744	86	251	713	64	744	25	86	434

SMOS

NAVAL WEATHER SERVICE DETACHMENT  
ASHEVILLE, NORTH CAROLINA

EXTREME VALUES

STATION NUMBER: 75-  
FROM DAILY OBSERVATIONS

STATION

STATION NAME

YEARS

IN DEGREES FAHRENHEIT  
/BASED ON LESS THAN FULL MONTHS/

MONTH YEAR	JAN	FEB	MAR.	APR.	MAY	JUN.	JUL	AUG.	SEP	OCT.	NOV	DEC	ALL MONTHS
1	20	17		40	45	54	74	56	77	42		31	MIN - 20
2	2	24		25	30	21	70	26	24	25		2	MAX - 70
3	27	29		37	44	50	45	16	55	44		22	MIN - 27
4	23	22		28	29	24	23	77	27	26		20	MAX - 77
5		21	32		45	61	64					17	MIN - 17
6		20	27		29	23	23					20	MAX - 64
7		1				51			14		24	23	MIN - 1
8		2				21			22		27	21	MAX - 27
9	15	17	29	33	44	52			51	47	44	26	MIN - 15
10	12	24	24	27	27	24			25	27	22	25	MAX - 52
11	15			33			47		6				MIN - 15
12	17			27			17		17				MAX - 47
13		24										22	MIN - 24
14		27										20	MAX - 27
15	14							51			22		MIN - 14
16	1												MAX - 51
17	16			72		50		74		35			MIN - 16
18				29		23		7		7			MAX - 74
19							15						MIN - 15
20							40						MAX - 40
21													MIN - 20
22													MAX - 22
23													MIN - 23
24													MAX - 24
25													MIN - 25
26													MAX - 26
27													MIN - 27
28													MAX - 28
29													MIN - 29
30													MAX - 30
31													MIN - 31
32													MAX - 32
33													MIN - 33
34													MAX - 34
35													MIN - 35
36													MAX - 36
37													MIN - 37
38													MAX - 38
39													MIN - 39
40													MAX - 40
41													MIN - 41
42													MAX - 42
43													MIN - 43
44													MAX - 44
45													MIN - 45
46													MAX - 46
47													MIN - 47
48													MAX - 48
49													MIN - 49
50													MAX - 50
51													MIN - 51
52													MAX - 52
53													MIN - 53
54													MAX - 54
55													MIN - 55
56													MAX - 56
57													MIN - 57
58													MAX - 58
59													MIN - 59
60													MAX - 60
61													MIN - 61
62													MAX - 62
63													MIN - 63
64													MAX - 64
65													MIN - 65
66													MAX - 66
67													MIN - 67
68													MAX - 68
69													MIN - 69
70													MAX - 70
71													MIN - 71
72													MAX - 72
73													MIN - 73
74													MAX - 74
75													MIN - 75
76													MAX - 76
77													MIN - 77
78													MAX - 78
79													MIN - 79
80													MAX - 80
81													MIN - 81
82													MAX - 82
83													MIN - 83
84													MAX - 84
85													MIN - 85
86													MAX - 86
87													MIN - 87
88													MAX - 88
89													MIN - 89
90													MAX - 90
91													MIN - 91
92													MAX - 92
93													MIN - 93
94													MAX - 94
95													MIN - 95
96													MAX - 96
97													MIN - 97
98													MAX - 98
99													MIN - 99
100													MAX - 100
MEAN													
S D													
TOTAL OBS													

SMOS

## PSYCHROMETRIC SUMMARY

STATION

STATION NAME

YEARS

MONTE CARLO

WILKES

[illegible]



## PSYCHROMETRIC SUMMARY

STATION NAME:

445

■ ● ○

[illegible]

## PSYCHROMETRIC SUMMARY

STATION

STATION NAME

YEARS

4292

• **A**





[illegible]

STATION

STATION NAME

YEARS

MQ:Y

A 12 :  
 HOURS : 5

[illegible]



4

STATION NAME

YEARS

☎ 020 7596 9000

422

[illegible]

## PSYCHROMETRIC SUMMARY

STATION

STATION NAME

## PLANS



1 5 9  
400: 85 1 5 9

Temp F	WET BULB TEMPERATURE DEPRESSION F																															TOTAL			TOTAL		
	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	D.B.	W.B.	Dry Bulb	Wet Bulb	Dew Point
70																		.1	.1																		
71																		.2	.2																		
72																		.3	.3																		
73																		.4	.4																		
74																		.5	.5																		
75																		.6	.6																		
76																		.7	.7																		
77																		.8	.8																		
78																		.9	.9																		
79																		1.0	1.0																		
80																		1.1	1.1																		
81																		1.2	1.2																		
82																		1.3	1.3																		
83																		1.4	1.4																		
84																		1.5	1.5																		
85																		1.6	1.6																		
86																		1.7	1.7																		
87																		1.8	1.8																		
88																		1.9	1.9																		
89																		2.0	2.0																		
90																		2.1	2.1																		
91																		2.2	2.2																		
92																		2.3	2.3																		
93																		2.4	2.4																		
94																		2.5	2.5																		
95																		2.6	2.6																		
96																		2.7	2.7																		
97																		2.8	2.8																		
98																		2.9	2.9																		
99																		3.0	3.0																		
100																		3.1	3.1																		
101																		3.2	3.2																		
102																		3.3	3.3																		
103																		3.4	3.4																		
104																		3.5	3.5																		
105																		3.6	3.6																		
106																		3.7	3.7																		
107																		3.8	3.8																		
108																		3.9	3.9																		
109																		4.0	4.0																		
110																		4.1	4.1																		
111																		4.2	4.2																		
112																		4.3	4.3																		
113																		4.4	4.4																		
114																		4.5	4.5																		
115																		4.6	4.6																		
116																		4.7	4.7																		
117																		4.8	4.8																		
118																		4.9	4.9																		
119																		5.0	5.0																		
120																		5.1	5.1																		
121																		5.2	5.2																		
122																		5.3	5.3																		
123																		5.4	5.4																		
124																		5.5	5.5																		
125																		5.6	5.6																		
126																		5.7	5.7																		
127																		5.8	5.8																		
128																		5.9	5.9																		
129																		6.0	6.0																		
130																		6.1	6.1																		
131																		6.2	6.2																		
132																		6.3	6.3																		
133																		6.4	6.4																		
134																		6.5	6.5																		
135																		6.6	6.6																		
136																		6.7	6.7																		
137																		6.8	6.8																		
138																		6.9	6.9																		
139																		7.0	7.0																		
140																		7.1	7.1																		
141																		7.2	7.2																		
142																		7.3	7.3																		
143																		7.4	7.4																		

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STATION

STATION NAME

YEARS

MCAT

HOLES 57

[illegible]

NAVWEASERVCOM

## PSYCHROMETRIC SUMMARY

STAT.OM

STATION NAME

YEARS

MCN 7-8

A. F. :  
 HOURS : 57

[illegible]





## PSYCHROMETRIC SUMMARY

5-4-24

STATION NAME

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[illegible]



[illegible]

## PSYCHROMETRIC SUMMARY

5450

STATION NAME

## FEARS

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[illegible]











# MEANS AND STANDARD DEVIATIONS

DAY- 101 TEMPERATURES DEG F FROM HOURLY OBSERVATIONS

STATION NAME

73-2

YEARS

HRS LST	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL
MEAN	40.7	41.1	40.4	56.5	63.4	70.7	74.1	73.9	65.7	57.0	50.9	43.7	57.7
S D.	10.4	12.0	11.1	8.37	7.327	5.251	4.055	3.355	5.741	9.344	10.724	11.11	10.744
TOTAL OBS	312	222	31	322	312	322	312	31	312	312	322	322	322
MEAN	30.7	32.4	47.7	54.5	61.5	69.1	70.7	70.6	65.7	55.4	40.7	42.5	54.7
S D.	10.7	12.3	10.632	8.892	7.274	5.618	4.324	4.227	6.116	9.639	11.321	12.142	12.231
TOTAL OBS	312	222	31	322	322	322	312	312	322	312	322	322	322
MEAN	20.4	30.5	47.8	55.0	64.8	72.4	75.6	74.3	67.1	55.0	44.3	41.4	56.5
S D.	10.332	12.468	11.240	8.475	6.977	5.214	4.135	4.443	6.257	9.563	11.592	12.116	16.419
TOTAL OBS	312	222	312	322	312	322	312	312	322	312	322	322	322
MEAN	44.7	47.5	57.7	67.1	74.2	80.5	87.5	87.6	78.7	66.8	50.8	44.7	66.7
S D.	10.249	11.279	9.734	8.621	7.228	6.321	5.261	4.964	6.272	9.243	10.327	10.618	16.241
TOTAL OBS	312	222	31	322	312	322	312	312	322	312	322	322	322
MEAN	50.7	53.9	63.2	71.9	78.1	83.5	84.5	85.9	82.7	72.3	55.1	55.5	70.7
S D.	10.2	11.2	10.311	9.734	7.778	6.670	5.925	5.696	6.138	8.250	10.581	10.712	15.372
TOTAL OBS	312	222	312	322	312	322	312	312	322	312	322	322	322
MEAN	10.4	54.5	62.5	70.9	76.9	82.3	85.2	84.3	80.9	71.0	67.4	65.7	70.1
S D.	10.7	11.2	10.576	7.935	7.222	6.379	5.525	5.195	5.718	7.576	9.376	10.329	14.382
TOTAL OBS	312	222	312	322	312	322	312	312	322	312	322	322	322
MEAN	40.7	47.9	56.2	63.4	71.0	77.5	80.3	79.1	74.7	62.9	55.7	46.5	63.4
S D.	10.276	10.777	9.115	6.305	5.942	5.032	4.327	3.606	4.993	7.807	9.472	10.116	14.406
TOTAL OBS	312	222	31	322	312	322	312	312	322	312	322	322	322
MEAN	62.0	43.6	51.3	59.0	65.1	72.9	76.1	75.7	71.5	59.1	52.5	45.3	59.7
S D.	11.311	11.614	9.609	7.892	6.724	4.792	3.968	3.677	5.390	8.796	10.576	11.316	14.317
TOTAL OBS	212	221	312	322	312	322	312	312	322	312	322	322	322
ALL HOURS	MEAN	44.1	45.1	54.6	62.5	68.5	76.1	79.2	78.6	74.3	62.5	55.5	67.7
S D.	10.127	13.316	11.953	10.470	9.296	7.690	6.891	6.636	7.870	10.573	12.146	12.378	16.255
TOTAL OBS	24	225	248	242	147	240	242	242	239	248	242	242	242

## TABLE 1. TEMPERATURES DURING E-FLY HOUSING OBSERVATIONS.

STATION		STATION NAME												YEARS	
HRS. LST.		JAN.	FEB.	MAR.	APR.	MAY	JUN.	JUL.	AUG.	SEP.	OCT.	NOV.	DEC.	ANNUAL	
MEAN		37.2	37.4	45.0	52.1	57.2	67.0	70.5	70.6	66.7	53.5	47.6	47.7	54.3	
S. D.		11.3	11.75	11.35	8.46	7.25	5.34	3.47	4.07	5.97	9.36	10.92	11.59	14.25	
TOTAL OBS.		310	311	311	310	310	310	311	311	310	310	310	310	3646	
MEAN		36.7	36.6	44.7	51.1	56.1	65.9	67.5	67.2	65.7	52.4	46.2	46.7	53.2	
S. D.		11.6	12.11	11.59	9.70	7.75	5.74	4.25	4.43	6.44	9.71	11.34	11.49	16.71	
TOTAL OBS.		310	311	311	310	310	310	311	311	310	310	310	310	3648	
MEAN		36.1	37.7	44.7	52.2	57.5	68.2	71.6	71.3	68.6	52.2	45.6	46.7	53.9	
S. D.		11.1	12.12	11.04	8.74	7.32	5.43	4.20	4.32	6.51	9.53	11.67	12.21	16.17	
TOTAL OBS.		310	312	311	310	310	310	312	310	310	310	310	310	3650	
MEAN		36.3	41.1	46.4	57.1	67.6	77.6	74.1	74.5	70.9	59.3	42.3	44.7	58.4	
S. D.		11.1	11.4	11.31	8.34	6.67	5.11	4.06	3.99	5.14	8.31	10.77	10.61	14.19	
TOTAL OBS.		310	310	311	310	310	310	311	311	310	310	310	311	3651	
MEAN		36.1	45.2	47.6	58.7	68.1	71.3	74.9	75.1	71.1	61.7	44.7	47.6	61.7	
S. D.		11.3	11.12	11.66	7.79	6.41	4.77	4.17	3.93	5.37	7.77	9.50	10.34	17.42	
TOTAL OBS.		310	310	311	310	310	310	311	311	311	310	310	311	3652	
MEAN		34.9	45.4	52.7	58.5	68.5	71.0	74.5	74.6	71.2	60.6	44.4	47.4	61.1	
S. D.		11.1	11.0	11.77	7.32	6.40	4.31	3.97	3.79	5.20	7.69	9.12	10.10	13.34	
TOTAL OBS.		310	312	311	310	311	310	311	311	310	310	310	310	3651	
MEAN		36.1	42.1	49.7	56.1	67.9	69.8	73.1	73.1	69.4	57.6	40.7	43.1	57.6	
S. D.		11.4	11.02	11.13	7.46	6.25	4.85	3.83	3.42	5.31	8.27	9.73	10.46	14.15	
TOTAL OBS.		310	311	311	310	311	310	311	311	310	311	310	311	3648	
MEAN		36.1	39.7	47.5	54.0	60.1	64.2	71.7	71.7	67.8	55.2	45.7	42.1	55.7	
S. D.		11.3	11.2	11.57	8.00	6.74	4.97	3.79	3.71	5.72	8.22	11.50	11.26	14.63	
TOTAL OBS.		310	311	311	310	310	310	310	311	310	310	310	310	3643	
MEAN		36.7	42.5	48.6	55.1	62.9	69.0	72.5	72.6	68.7	54.5	40.0	43.0	56.7	
S. D.		11.3	11.12	11.43	8.61	7.24	5.46	4.12	4.34	6.20	9.25	10.33	11.20	14.87	
TOTAL OBS.		247	251	246	240	249	240	248	247	239	240	240	246	2918	
ALL HOURS															

# MEANS AND STANDARD DEVIATIONS

SEA-POINT TEMPERATURES DERIVED FROM HOURLY OBSERVATIONS

STATION		STATION NAME												YEARS	
HRS LST		JAN	FEB.	MAR.	APR.	MAY	JUN.	JUL.	AUG.	SEP.	OCT.	NOV.	DEC.	ANNUAL	
MEAN		32.6	41.4	48.7	56.1	64.2	69.7	69.7	65.1	51.0	47.2	38.7	31.1	51.1	
S D		13.15	12.21	10.47	7.99	6.11	4.49	4.57	6.63	13.45	12.41	13.64	16.44		
TOTAL OBS		312	312	312	312	312	312	312	312	312	312	312	312	312	
MEAN		31.5	40.9	47.5	57.2	64.1	67.0	65.5	64.1	49.2	47.9	38.4	30.4	50.7	
S D		13.23	12.57	11.57	8.37	6.45	4.58	4.22	7.27	10.67	11.05	13.77	17.27		
TOTAL OBS		312	312	312	312	312	312	312	312	312	312	312	312	312	
MEAN		30.7	41.7	48.6	58.2	65.5	69.6	69.4	65.0	49.4	47.4	34.5	30.2	50.2	
S D		14.27	12.69	11.73	8.11	6.40	4.84	4.89	7.25	10.53	11.23	13.89	17.61		
TOTAL OBS		312	312	312	312	312	312	312	312	312	312	312	312	312	
MEAN		34.2	42.4	48.4	58.2	65.6	68.9	70.0	66.7	52.9	45.0	37.0	32.4	52.4	
S D		14.48	14.15	12.32	9.16	6.57	4.95	4.82	7.33	10.84	11.37	13.97	17.41		
TOTAL OBS		312	312	312	312	312	312	312	312	312	312	312	312	312	
MEAN		34.1	42.0	47.6	58.5	65.7	69.5	70.2	66.7	51.9	49.0	37.0	31.5	51.5	
S D		14.27	14.13	12.46	9.54	6.56	5.55	4.95	7.23	11.17	11.14	14.46	17.47		
TOTAL OBS		312	312	312	312	312	312	312	312	312	312	312	312	312	
MEAN		34.2	42.2	47.9	58.2	65.1	69.7	70.2	66.2	52.2	45.2	37.0	32.7	52.7	
S D		14.67	14.33	12.11	9.73	6.74	5.49	5.15	7.22	11.22	11.44	14.67	17.47		
TOTAL OBS		312	312	312	312	312	312	312	312	312	312	312	312	312	
MEAN		34.1	42.6	48.2	58.2	65.7	67.8	70.3	66.5	53.3	45.6	37.6	32.4	52.4	
S D		14.36	13.05	11.45	8.74	6.54	4.96	4.59	6.57	10.44	10.22	13.23	17.06		
TOTAL OBS		312	312	312	312	312	312	312	312	312	312	312	312	312	
MEAN		33.1	42.7	49.5	58.3	65.7	69.5	69.8	65.7	52.0	44.7	37.1	30.7	50.7	
S D		13.26	13.74	11.34	10.34	7.77	6.37	4.42	4.44	6.55	10.11	12.49	13.52	16.78	
TOTAL OBS		312	312	312	312	312	312	312	312	312	312	312	312	312	
MEAN		33.2	41.9	49.4	58.6	65.2	69.3	69.9	65.7	51.6	44.4	36.2	30.7	50.7	
S D		14.41	13.14	11.31	8.72	6.46	4.99	4.79	7.23	10.73	10.55	14.07	17.24		
TOTAL OBS		2478	2478	2478	2478	2478	2478	2478	2478	2478	2478	2478	2478	2478	

NAVAL WEATHER SERVICE DETACHMENT  
ASHEVILLE, NORTH CAROLINA

# RELATIVE HUMIDITY

STATION NAME PERIOD MONTH

CUMULATIVE PERCENTAGE FREQUENCY OF OCCURRENCE  
(FROM HOURLY OBSERVATIONS)

MONTH	HOURS -LST	PERCENTAGE FREQUENCY OF RELATIVE HUMIDITY GREATER THAN									MEAN RELATIVE HUMIDITY	TOTAL NO. OF OBS
		10%	20%	30%	40%	50%	60%	70%	80%	90%		
JAN		100.0	99.7	99.7	7.4	6.7	11.4	11.4	14.7	14.7	74.0	37
FEB		100.0	100.0	99.7	8.1	8.1	23.4	21.0	41.7	12.1	75.8	417
MAR		100.0	100.0	100.0	8.4	94.7	84.7	73.7	41.7	11.7	76.5	410
APR		100.0	100.0	99.7	2.7	7.0	42.5	44.4	24.2	1.1	47.0	11
MAY		100.0	9.0	30.7	31.4	54.7	43.7	27.4	16.7	7.7	46.1	11
JUN		100.0	4.0	37.7	46.0	52.7	40.7	27.7	14.7	4.2	44.0	11
JUL		100.0	4.4	37.7	31.4	37.0	51.4	44.7	21.1	7.4	46.4	117
AUG		100.0	9.7	35.4	30.1	38.0	37.7	31.0	14.7	11.7	71.1	117
SEPT												
OCT												
NOV												
DEC												
TOTALS		100.0	40.1	46.5	49.1	37.7	44.4	41.0	24.7	11.7	47.4	2470

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NAVY WEATHER SERVICE DETACHMENT  
 ASHEVILLE, NORTH CAROLINA

# RELATIVE HUMIDITY

STATION

STATION NAME

PERIOD

MONTH

CUMULATIVE PERCENTAGE FREQUENCY OF OCCURRENCE  
 (FROM HOURLY OBSERVATIONS)

MONTH	HOURS LST	PERCENTAGE FREQUENCY OF RELATIVE HUMIDITY GREATER THAN									MEAN RELATIVE HUMIDITY	TOTAL NO. OF OBS.
		10%	20%	30%	40%	50%	60%	70%	80%	90%		
1	1	100.0	100.0	100.0	7.1	1.0	0.0	0.0	0.0	0.0	75.7	1
1	2	100.0	100.0	100.0	0.0	0.0	0.0	0.0	0.0	0.0	77.1	2
1	3	100.0	100.0	100.0	0.0	0.0	0.0	0.0	0.0	0.0	77.1	3
1	4	100.0	100.0	100.0	0.0	0.0	0.0	0.0	0.0	0.0	77.1	4
1	5	100.0	100.0	100.0	0.0	0.0	0.0	0.0	0.0	0.0	77.1	5
1	6	100.0	100.0	100.0	0.0	0.0	0.0	0.0	0.0	0.0	77.1	6
1	7	100.0	100.0	100.0	0.0	0.0	0.0	0.0	0.0	0.0	77.1	7
1	8	100.0	100.0	100.0	0.0	0.0	0.0	0.0	0.0	0.0	77.1	8
1	9	100.0	100.0	100.0	0.0	0.0	0.0	0.0	0.0	0.0	77.1	9
1	10	100.0	100.0	100.0	0.0	0.0	0.0	0.0	0.0	0.0	77.1	10
1	11	100.0	100.0	100.0	0.0	0.0	0.0	0.0	0.0	0.0	77.1	11
1	12	100.0	100.0	100.0	0.0	0.0	0.0	0.0	0.0	0.0	77.1	12
1	13	100.0	100.0	100.0	0.0	0.0	0.0	0.0	0.0	0.0	77.1	13
1	14	100.0	100.0	100.0	0.0	0.0	0.0	0.0	0.0	0.0	77.1	14
1	15	100.0	100.0	100.0	0.0	0.0	0.0	0.0	0.0	0.0	77.1	15
1	16	100.0	100.0	100.0	0.0	0.0	0.0	0.0	0.0	0.0	77.1	16
1	17	100.0	100.0	100.0	0.0	0.0	0.0	0.0	0.0	0.0	77.1	17
1	18	100.0	100.0	100.0	0.0	0.0	0.0	0.0	0.0	0.0	77.1	18
1	19	100.0	100.0	100.0	0.0	0.0	0.0	0.0	0.0	0.0	77.1	19
1	20	100.0	100.0	100.0	0.0	0.0	0.0	0.0	0.0	0.0	77.1	20
1	21	100.0	100.0	100.0	0.0	0.0	0.0	0.0	0.0	0.0	77.1	21
1	22	100.0	100.0	100.0	0.0	0.0	0.0	0.0	0.0	0.0	77.1	22
1	23	100.0	100.0	100.0	0.0	0.0	0.0	0.0	0.0	0.0	77.1	23
1	24	100.0	100.0	100.0	0.0	0.0	0.0	0.0	0.0	0.0	77.1	24
TOTALS		100.0	0.1	93.9	4.0	74.1	67.2	44.7	22.7	11.6	56.1	240

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TOTALS

OCEANAV-SMOS



STAFF NAMES

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CUMULATIVE PERCENTAGE FREQUENCY OF OCCURRENCE  
FROM HOURLY OBSERVATIONS

OCEANAV-SMOS

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NAVAL WEATHER SERVICE DETACHMENT  
ASHEVILLE, NORTH CAROLINA

# RELATIVE HUMIDITY

STATION NAME PERIOD MONTH

CUMULATIVE PERCENTAGE FREQUENCY OF OCCURRENCE  
(FROM HOURLY OBSERVATIONS)

MONTH	HOURS LST	PERCENTAGE FREQUENCY OF RELATIVE HUMIDITY GREATER THAN									MEAN RELATIVE HUMIDITY	TOTAL NO. OF OBS.
		10%	20%	30%	40%	50%	60%	70%	80%	90%		
	1	100.0	100.0	100.0	100.0	100.0	100.0	99.9	99.9	99.9	99.9	100
	2	100.0	100.0	100.0	100.0	100.0	99.7	98.4	94.0	87.3	87.3	100
	3	100.0	100.0	100.0	100.0	100.0	99.7	97.7	92.7	83.7	86.1	100
	4	100.0	100.0	100.0	100.0	99.7	96.4	90.4	80.4	68.2	68.2	100
	5	100.0	100.0	100.0	98.7	94.0	81.0	65.0	48.0	31.0	65.7	100
	6	100.0	100.0	100.0	98.0	90.0	75.4	57.4	38.0	20.0	60.0	100
	7	100.0	100.0	100.0	98.0	90.0	75.4	57.4	38.0	20.0	60.0	100
	8	100.0	100.0	100.0	98.0	90.0	75.4	57.4	38.0	20.0	60.0	100
	9	100.0	100.0	100.0	98.0	90.0	75.4	57.4	38.0	20.0	60.0	100
	10	100.0	100.0	100.0	98.0	90.0	75.4	57.4	38.0	20.0	60.0	100
	11	100.0	100.0	100.0	98.0	90.0	75.4	57.4	38.0	20.0	60.0	100
	12	100.0	100.0	100.0	98.0	90.0	75.4	57.4	38.0	20.0	60.0	100
	13	100.0	100.0	100.0	98.0	90.0	75.4	57.4	38.0	20.0	60.0	100
	14	100.0	100.0	100.0	98.0	90.0	75.4	57.4	38.0	20.0	60.0	100
	15	100.0	100.0	100.0	98.0	90.0	75.4	57.4	38.0	20.0	60.0	100
	16	100.0	100.0	100.0	98.0	90.0	75.4	57.4	38.0	20.0	60.0	100
	17	100.0	100.0	100.0	98.0	90.0	75.4	57.4	38.0	20.0	60.0	100
	18	100.0	100.0	100.0	98.0	90.0	75.4	57.4	38.0	20.0	60.0	100
	19	100.0	100.0	100.0	98.0	90.0	75.4	57.4	38.0	20.0	60.0	100
	20	100.0	100.0	100.0	98.0	90.0	75.4	57.4	38.0	20.0	60.0	100
	21	100.0	100.0	100.0	98.0	90.0	75.4	57.4	38.0	20.0	60.0	100
	22	100.0	100.0	100.0	98.0	90.0	75.4	57.4	38.0	20.0	60.0	100
	23	100.0	100.0	100.0	98.0	90.0	75.4	57.4	38.0	20.0	60.0	100
	24	100.0	100.0	100.0	98.0	90.0	75.4	57.4	38.0	20.0	60.0	100
TOTALS		100.0	100.0	100.0	98.0	90.0	75.4	57.4	38.0	20.0	60.0	2400

OCEANAV-SMOS

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5142-13

STATION NAME

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5947 / 2

STATION NAME

## FIGURE 2

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MONTH	HOURS (LST)	PERCENTAGE FREQUENCY OF RELATIVE HUMIDITY GREATER THAN									MEAN RELATIVE HUMIDITY	TOTAL NO. OF OBS.
		10%	20%	30%	40%	50%	60%	70%	80%	90%		
JAN.	12	100.0	100.0	99.7	7.	14.3	11.3	14.7	10.0	11.0	77.0	1
FEB.	12	100.0	100.0	100.0	9.	16.3	21.3	11.3	11.0	21.0	74.7	1
MAR.	12	100.0	100.0	100.	9.3	15.	32.7	14.7	13.0	23.3	81.6	100
APR.	12	100.0	100.0	99.0	12.7	13.7	57.7	18.7	19.0	11.0	64.3	100
MAY	12	100.0	99.	97.0	6.7	45.	29.0	16.7	1.7	7.	51.	100
JUN.	12	100.0	9.7	62.7	42.7	62.7	75.3	82.7	11.7	1.7	33.1	100
JUL.	12	100.0	100.0	99.7	17.3	40.7	74.3	51.7	26.7	7.3	71.3	100
AUG.	12	100.0	100.0	99.3	7.7	40.7	67.7	71.7	40.7	11.3	76.1	100
SEPT.	12											
OCT.	12											
NOV.	12											
DEC.	12											
TOTALS		100.0	99.7	96.9	89.9	80.3	64.5	54.6	37.0	11.	69.2	240

**OCEANAV-SMOS**

NAVAL WEATHER SERVICE DETACHMENT  
ASHEVILLE, NORTH CAROLINA

# RELATIVE HUMIDITY

STATION 1079, 11 77-3, 11  
STATION STATION NAME PERIOD MONTH

CUMULATIVE PERCENTAGE FREQUENCY OF OCCURRENCE  
(FROM HOURLY OBSERVATIONS)

MONTH	HOURS LST	PERCENTAGE FREQUENCY OF RELATIVE HUMIDITY GREATER THAN									MEAN RELATIVE HUMIDITY	TOTAL NO. OF OBS
		10%	20%	30%	40%	50%	60%	70%	80%	90%		
1	1	100.0	100.0	100.0	98.4	93.0	82.7	69.1	50.7	34.7	75.7	317
2	1	100.0	100.0	99.7	99.4	95.0	87.0	71.4	51.7	36.0	76.0	317
3	1	100.0	100.0	100.0	9.7	90.4	89.0	72.4	42.0	26.3	77.7	317
4	1	100.0	100.0	99.0	93.0	82.1	67.0	47.1	26.6	17.0	67.6	317
5	1	100.0	99.0	89.0	71.4	52.4	35.7	24.7	11.7	6.0	64.5	317
6	1	100.0	9.0	43.6	71.1	63.0	30.0	25.7	11.7	6.5	65.0	317
7	1	100.0	49.4	42.4	64.5	35.1	66.2	47.1	23.7	6.5	67.7	317
8	1	100.0	100.0	92.7	67.4	50.0	30.4	60.1	30.9	11.0	73.0	317
TOTALS		100.0	99.7	96.9	70.0	61.0	67.8	42.7	29.3	10.1	69.5	2451

OCEANAV-SMOS



NAVAL WEATHER SERVICE DETACHMENT  
ASHEVILLE, NORTH CAROLINA

# RELATIVE HUMIDITY

STATION NAME PERIOD MONTH

CUMULATIVE PERCENTAGE FREQUENCY OF OCCURRENCE  
(FROM HOURLY OBSERVATIONS)

MONTH	HOURS LST	PERCENTAGE FREQUENCY OF RELATIVE HUMIDITY GREATER THAN									MEAN RELATIVE HUMIDITY	TOTAL NO. OF OBS
		10%	20%	30%	40%	50%	60%	70%	80%	90%		
JAN	101.0	100.0	99.7	96.1	89.1	79.7	69.4	58.7	47.7	36.7	60.8	2471
FEB	101.0	100.0	99.5	95.8	88.8	79.5	69.6	58.5	47.5	36.5	64.7	2271
MAR	101.0	100.0	99.1	93.1	84.1	74.6	64.7	53.7	42.7	31.7	66.1	2471
APR	101.0	100.0	98.6	92.6	83.6	74.1	64.1	53.1	42.1	31.1	61.9	2471
MAY	100.0	100.0	99.9	97.7	92.7	84.7	74.3	63.7	52.7	41.7	71.1	2471
JUN	101.0	100.0	99.9	99.9	98.1	97.7	92.4	88.1	83.1	78.1	71.0	2471
JUL	101.0	100.0	100.0	99.7	98.7	97.7	94.1	90.7	86.9	83.7	71.4	2471
AUG	100.0	100.0	100.0	99.7	98.7	97.7	94.4	90.7	86.4	83.4	76.0	2477
SEP	101.0	100.0	99.9	98.7	97.7	93.1	88.4	82.7	76.7	70.7	76.0	2476
OCT	101.0	100.0	99.9	98.7	97.7	97.7	94.4	90.7	86.7	83.4	76.1	2471
NOV	101.0	100.0	99.7	96.4	89.4	80.7	69.4	58.7	47.7	36.7	66.0	2471
DEC	101.0	100.0	99.7	96.7	89.7	81.7	67.4	57.7	46.7	36.1	64.5	2471
TOTALS	101.0	100.0	99.7	97.0	91.4	82.7	72.9	65.4	54.0	42.9	65.8	29115

OCEANAV-SMOS

PERCENTAGE FREQUENCY OF AIR TEMPERATURE  
VS.  
WIND DIRECTION

STATION: 01000 DATE: 15 JAN 72 YEAR: 1972 MONTH: JANUARY

TEMP.	WIND DIRECTION										TOTAL FREQ.	% OF TOTAL
	NNE S.W.	NNE S.W.	NNE S.W.	ESE S.W.	ESE S.W.	SSW S.W.	WSW S.W.	WNW S.W.	WNW S.W.	W S.W.		
01000												
02000												
03000												
04000												
05000												
06000												
07000												
08000												
09000												
10000												
11000												
12000												
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98000												
99000												
TOTALS	18.6	9.4	3.9	2.9	7.4	10.4	17.0	12.9	15.6	24.7	157.7	

NAVWEASERVCOM



## WIND DIRECTION

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JAN 1977-01064-0 10-0

1998

## WIND DIRECTION

TIME	WIND DIRECTION										TOTAL REF	TOTAL
	NWA S.W.	NNE S.W.	ENE S.W.	ENE S.W.	ENE S.W.	ENE S.W.	ENE S.W.	ENE S.W.	ENE S.W.	ENE S.W.		
0000												
0100												
0200												
0300												
0400												
0500												
0600												
0700												
0800												
0900												
1000												
1100												
1200												
1300												
1400												
1500												
1600												
1700												
1800												
1900												
2000												
2100												
2200												
2300												
TOTALS	13.9	6.8	5.4	7.3	13.1	10.4	13.0	8.3	11.5	20.0	100.0	

NAVWEASERVCOM

4

PERCENTAGE FREQUENCY OF AIR TEMPERATURE  
VS.  
WIND DIRECTION

STATION NEW ORLEANS, LA

JANUARY 1973-DECEMBER 1992

APRIL

TEMP	WIND DIRECTION										TOTAL FREQ.	OF TOTAL
	N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W		
30-34.9												
25-29.9												
20-24.9												
15-19.9												
10-14.9												
5-9.9												
0-4.9												
35-39.9			33.3				33.3	33.3				.1
30-34.9	6.3		6.3		15.8	6.3	37.5	25.0			10	.7
25-29.9	7.4	1.9	1.9	14.8	14.8	22.2	33.3	3.7			54	7.3
20-24.9	5.2		3.0	11.1	31.9	22.2	17.5	9.6			175	5.6
15-19.9	3.8	2.3	6.0	12.6	31.3	27.5	12.1	4.9	1.5		265	11.0
10-14.9	5.3	3.5	6.6	8.8	71.3	24.2	13.4	5.3	1.5		394	16.5
5-9.9	8.4	3.9	5.8	11.6	14.9	19.8	16.3	6.2	7.1		465	19.4
0-4.9	11.5	8.8	11.0	7.1	10.3	14.2	15.6	8.3	13.2		469	17.0
35-39.9	15.4	15.0	9.2	3.1	8.5	7.3	15.8	7.7	15.1		250	10.0
30-34.9	15.4	13.1	5.1	1.9	3.7	10.3	16.4	11.7	22.4		214	8.9
25-29.9	23.0	8.7	4.0		1.6	10.3	15.1	14.3	23.0		126	5.1
20-24.9	6.5	4.3	2.2		2.2	13.0	26.1	15.2	31.4		46	1.9
15-19.9						9.1	36.4	14.2	36.4		11	.5
10-14.9												
5-9.9												
0-4.9												
35-39.9												
30-34.9												
25-29.9												
20-24.9												
15-19.9												
10-14.9												
5-9.9												
0-4.9												
35-39.9												
30-34.9												
25-29.9												
20-24.9												
15-19.9												
10-14.9												
5-9.9												
0-4.9												
TOTALS	7.5	6.4	6.8	7.5	17.7	17.7	16.3	8.2	10.0		2400	100.0

NAVWEASERVCOM

PERCENTAGE FREQUENCY OF AIR TEMPERATURE  
VS.

WIND DIRECTION

JANUARY 1977-DECEMBER 1982

NAVY

WIND DIRECTION

WIND DIRECTION	WIND S.W.	WIND S.W.	WIND S.W.	WIND S.W.	WIND S.W.	WIND S.W.	WIND S.W.	WIND S.W.	WIND S.W.	WIND S.W.	TOTAL FREQ.	% TOTAL
00-09												
10-19												
20-29												
30-39												
40-49												
50-59												
60-69												
70-79												
80-89												
90-99												
100-109												
110-119												
120-129												
130-139												
140-149												
150-159												
160-169												
170-179												
180-189												
190-199												
200-209												
210-219												
220-229												
230-239												
240-249												
250-259												
260-269												
270-279												
280-289												
290-299												
300-309												
310-319												
320-329												
330-339												
340-349												
350-359												
360-369												
370-379												
380-389												
390-399												
400-409												
410-419												
420-429												
430-439												
440-449												
450-459												
460-469												
470-479												
480-489												
490-499												
500-509												
510-519												
520-529												
530-539												
540-549												
550-559												
560-569												
570-579												
580-589												
590-599												
600-609												
610-619												
620-629												
630-639												
640-649												
650-659												
660-669												
670-679												
680-689												
690-699												
700-709												
710-719												
720-729												
730-739												
740-749												
750-759												
760-769												
770-779												
780-789												
790-799												
800-809												
810-819												
820-829												
830-839												
840-849												
850-859												
860-869												
870-879												
880-889												
890-899												
900-909												
910-919												
920-929												
930-939												
940-949												
950-959												
960-969												
970-979												
980-989												
990-999												
TOTALS	10.2	8.1	7.5	7.1	18.6	17.2	14.3	6.1	11.0	2479	100.0	

NAVWEASERVCOM

10

4. DIRECTION

**ACKNOWLEDGMENTS**

1.	1.	1.	1.	1.	1.	1.	1.
2.	2.	2.	2.	2.	2.	2.	2.
3.	3.	3.	3.	3.	3.	3.	3.
4.	4.	4.	4.	4.	4.	4.	4.
5.	5.	5.	5.	5.	5.	5.	5.
6.	6.	6.	6.	6.	6.	6.	6.
7.	7.	7.	7.	7.	7.	7.	7.
8.	8.	8.	8.	8.	8.	8.	8.
9.	9.	9.	9.	9.	9.	9.	9.
10.	10.	10.	10.	10.	10.	10.	10.
11.	11.	11.	11.	11.	11.	11.	11.
12.	12.	12.	12.	12.	12.	12.	12.
13.	13.	13.	13.	13.	13.	13.	13.
14.	14.	14.	14.	14.	14.	14.	14.
15.	15.	15.	15.	15.	15.	15.	15.
16.	16.	16.	16.	16.	16.	16.	16.
17.	17.	17.	17.	17.	17.	17.	17.
18.	18.	18.	18.	18.	18.	18.	18.
19.	19.	19.	19.	19.	19.	19.	19.
20.	20.	20.	20.	20.	20.	20.	20.
21.	21.	21.	21.	21.	21.	21.	21.
22.	22.	22.	22.	22.	22.	22.	22.
23.	23.	23.	23.	23.	23.	23.	23.
24.	24.	24.	24.	24.	24.	24.	24.
25.	25.	25.	25.	25.	25.	25.	25.
26.	26.	26.	26.	26.	26.	26.	26.
27.	27.	27.	27.	27.	27.	27.	27.
28.	28.	28.	28.	28.	28.	28.	28.
29.	29.	29.	29.	29.	29.	29.	29.
30.	30.	30.	30.	30.	30.	30.	30.
31.	31.	31.	31.	31.	31.	31.	31.
32.	32.	32.	32.	32.	32.	32.	32.
33.	33.	33.	33.	33.	33.	33.	33.
34.	34.	34.	34.	34.	34.	34.	34.
35.	35.	35.	35.	35.	35.	35.	35.
36.	36.	36.	36.	36.	36.	36.	36.
37.	37.	37.	37.	37.	37.	37.	37.
38.	38.	38.	38.	38.	38.	38.	38.
39.	39.	39.	39.	39.	39.	39.	39.
40.	40.	40.	40.	40.	40.	40.	40.
41.	41.	41.	41.	41.	41.	41.	41.
42.	42.	42.	42.	42.	42.	42.	42.
43.	43.	43.	43.	43.	43.	43.	43.
44.	44.	44.	44.	44.	44.	44.	44.
45.	45.	45.	45.	45.	45.	45.	45.
46.	46.	46.	46.	46.	46.	46.	46.
47.	47.	47.	47.	47.	47.	47.	47.
48.	48.	48.	48.	48.	48.	48.	48.
49.	49.	49.	49.	49.	49.	49.	49.
50.	50.	50.	50.	50.	50.	50.	50.

NAVYAL FLEET V

PERMANENT FREQUENCY OF AIR TEMPERATURE  
AND DIRECTION

WIND DIRECTION

1	2	3	4	5	6	7	8	9	10	11	12
1	1	1	1	1	1	1	1	1	1	1	1
2	2	2	2	2	2	2	2	2	2	2	2
3	3	3	3	3	3	3	3	3	3	3	3
4	4	4	4	4	4	4	4	4	4	4	4
5	5	5	5	5	5	5	5	5	5	5	5
6	6	6	6	6	6	6	6	6	6	6	6
7	7	7	7	7	7	7	7	7	7	7	7
8	8	8	8	8	8	8	8	8	8	8	8
9	9	9	9	9	9	9	9	9	9	9	9
10	10	10	10	10	10	10	10	10	10	10	10
11	11	11	11	11	11	11	11	11	11	11	11
12	12	12	12	12	12	12	12	12	12	12	12

NAVAL AIR FORCE



# PERCENTAGE FREQUENCY OF AIR TEMPERATURE AND DIRECTION

WIND DIRECTION

0.0	0.1	0.2	0.3	0.4	0.5	0.6	0.7	0.8	0.9
1.0	1.1	1.2	1.3	1.4	1.5	1.6	1.7	1.8	1.9
2.0	2.1	2.2	2.3	2.4	2.5	2.6	2.7	2.8	2.9
3.0	3.1	3.2	3.3	3.4	3.5	3.6	3.7	3.8	3.9
4.0	4.1	4.2	4.3	4.4	4.5	4.6	4.7	4.8	4.9
5.0	5.1	5.2	5.3	5.4	5.5	5.6	5.7	5.8	5.9
6.0	6.1	6.2	6.3	6.4	6.5	6.6	6.7	6.8	6.9
7.0	7.1	7.2	7.3	7.4	7.5	7.6	7.7	7.8	7.9
8.0	8.1	8.2	8.3	8.4	8.5	8.6	8.7	8.8	8.9
9.0	9.1	9.2	9.3	9.4	9.5	9.6	9.7	9.8	9.9

NAVY/NOAA FORM 10

PERCENTAGE FREQUENCY OF AIR TEMPERATURE  
VS.  
WIND DIRECTION

STATION: 12 LIVER, MO

JANUARY 1973-DECEMBER 1987 SEPTEMBER

WIND DIRECTION

TEMP	NNW & N	NNE & NE	ESE & E	ESS & SE	SSW & S	SSW & SW	WSW & W	WNW & NW	CALM	TOTAL FREQ.	% TOTAL
70-74											
75-79											
80-84											
85-89											
90-94											
95-99											
100-104											
105-109											
110-114											
115-119											
120-124											
125-129											
130-134											
135-139											
140-144											
145-149											
150-154											
155-159											
160-164											
165-169											
170-174											
175-179											
180-184											
185-189											
190-194											
195-199											
200-204											
205-209											
210-214											
215-219											
220-224											
225-229											
230-234											
235-239											
240-244											
245-249											
250-254											
255-259											
260-264											
265-269											
270-274											
275-279											
280-284											
285-289											
290-294											
295-299											
TOTALS	16.3	14.5	11.5	5.5	10.5	9.8	8.5	4.0	19.6	2399	100.0

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PERCENTAGE FREQUENCY OF AIR TEMPERATURE  
VS.  
WIND DIRECTION

STATION: 1501 LIVER, AK DATE: JANUARY 1973-DECEMBER 1997

TEMP.	WIND DIRECTION										TOTAL FREQ.	% TOTAL
	NNA & N	NNE & NE	ESE & E	SSE & SE	SSW & S	WSW & W	WNA & NW	WNW & W	WNW & NW	CALM		
122.1												
121 TO 122												
120 TO 121												
119 TO 120												
118 TO 119												
117 TO 118												
116 TO 117												
115 TO 116												
114 TO 115												
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10 TO 11												
9 TO 10												
8 TO 9												
7 TO 8												
6 TO 7												
5 TO 6												
4 TO 5												
3 TO 4												
2 TO 3												
1 TO 2												
0 TO 1												
TOTALS	22.2	11.3	2.6	3.4	7.5	9.5	10.2	7.3	20.6	248	100.0	

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PERCENTAGE FREQUENCY OF AIR TEMPERATURE  
VS.  
WIND DIRECTION

STATION: NAVSTA, NC DATE: JANUARY 1973-DECEMBER 1973 NAME: NAVMC

WIND DIRECTION											
WIND DIRECTION	SW & S	SE & E	ENE & E	ESE & E	E & S	SW & W	WSW & W	WNW & W	WNW & W	W & N	TOTAL FREQ.
01-05											
06-10											
11-15											
16-20											
21-25											
26-30											
31-35											
36-40											
41-45											
46-50											
51-55											
56-60											
61-65											
66-70											
71-75											
76-80											
81-85											
86-90											
91-95											
96-100											
TOTAL	18.0	10.0	7.0	4.5	7.3	8.9	13.1	9.6	19.0	240.0	100.0

NAVWEASERVCOM

## JANUARY 1973-DECEMBER 1982 DECEMBER 1982

[illegible]

PERCENTAGE FREQUENCY OF AIR TEMPERATURE  
VS.  
WIND DIRECTION

JANUARY 1973-DECEMBER 1972

WIND DIRECTION

TEMP.	NNA & N	NNE & NE	ENE & E	ESE & SE	SSE & S	SSW & SW	WSW & W	WNW & NW	CALM	TOTAL FREQ.	% OF TOTAL
20-21											
21-22											
22-23											
23-24											
24-25											
25-26											
26-27	13.5		6.9		2.4	10.3	43.3	17.2		83	.1
27-28	4.9		2.4	4.7	20.0	21.0	36.4	4.8	5.2	25	.9
28-29	5.0	2.4	7.9	9.9	25.6	17.8	22.2	6.6	2.7	928	3.7
29-30	5.9	5.5	10.2	9.8	27.1	17.8	15.0	5.0	3.3	1929	6.6
30-31	5.2	6.2	10.4	7.3	21.6	20.9	13.5	3.6	9.3	3018	10.3
31-32	7.2	8.6	10.0	5.2	15.6	17.5	14.0	4.0	17.8	4176	14.3
32-33	12.7	10.8	7.6	5.5	14.6	15.5	12.5	4.5	16.3	3495	12.0
33-34	13.4	9.4	6.6	6.4	15.1	16.9	12.4	5.5	14.0	2971	10.2
34-35	14.7	10.9	8.3	5.4	8.9	12.3	13.3	8.8	17.3	2543	8.7
35-36	12.8	11.7	8.2	3.6	5.7	9.3	14.6	9.7	18.5	2350	8.0
36-37	10.2	13.4	8.3	2.4	2.8	7.0	14.3	11.4	19.4	2041	7.0
37-38	25.2	11.0	5.1	1.8	2.9	6.6	15.1	12.4	18.0	1806	6.2
38-39	24.4	13.7	5.3	1.4	1.7	6.0	13.5	13.0	21.1	1425	4.9
39-40	25.4	12.1	4.3	.8	1.2	6.6	15.2	11.9	22.4	1080	3.7
40-41	24.5	11.3	2.0	.3	1.1	6.3	15.6	11.9	26.0	666	2.3
41-42	28.8	10.1	1.6		.7	5.2	13.1	14.4	26.1	305	1.0
42-43	25.9	4.9				6.1	19.0	19.7	24.5	147	.5
43-44	27.1					19.2	23.1	17.2	15.4	76	.1
44-45						14.3	71.4	14.3		7	.0
45-46											
46-47											
47-48											
48-49											
49-50											
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94-95											
95-96											
96-97											
97-98											
98-99											
99-100											
TOTALS	14.0	9.5	7.9	5.2	12.3	13.8	14.3	7.4	15.7	29207	100.0

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Worm, General Building  
Asheville, N. C.

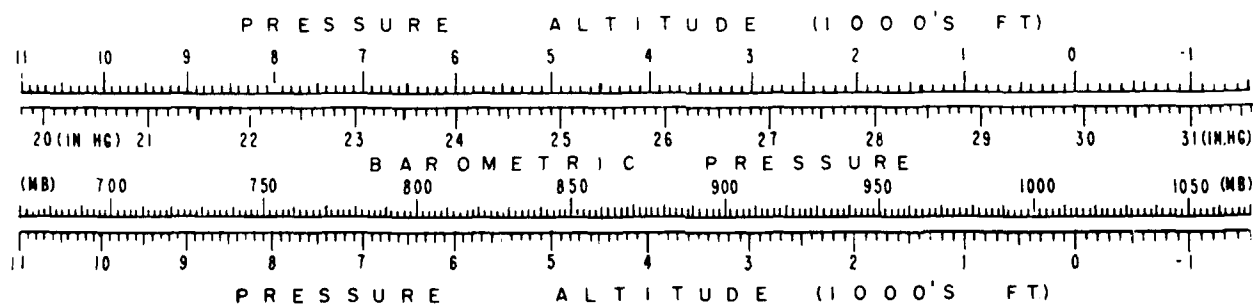
## PART F

## PRESSURE SUMMARY

Presented in this part are two tables giving the means, standard deviations, and total number of observations of station pressure and sea-level pressure by month and annual for the local hourly observations corresponding to the eight 3-hourly synoptic times GCT. The same computations are also provided at the bottom of the page for all hours combined. All years of data available are combined in both of these tables, although the overall period is limited to January 1946 through December 1963 because of changes in reporting practices before and after those dates.

1. Station pressure in inches of mercury.
2. Sea-level pressure in millibars.

Provided below is a scale to convert station pressure values in inches of mercury or millibars to pressure altitude in 1000's of feet. This scale is an enlarged model of the pressure altitude scale in the Smithsonian Meteorological Tables.



# MEANS AND STANDARD DEVIATIONS

A FEW PRESSURE IN THE 500 MB HOURLY OBSERVATIONS

STATION	STATION NAME	YEARS													
HRS (L.S.T.)	JAN.	FEB.	MAR.	APR.	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL		
MEAN	1019.1	1019.3	1017.6	1017.3	1015.4	1016.4	1017.3	1017.1	1017.4	1018.2	1019.0	1019.6	1017.7		
S.D.	7.800	7.774	7.215	6.736	4.801	4.454	3.734	3.261	3.442	5.747	6.334	7.936	6.152		
TOTAL OBS	312	242	312	300	312	300	312	312	300	312	300	300	3651		
MEAN	1019.1	1019.9	1017.0	1017.0	1015.1	1016.0	1016.8	1017.7	1017.0	1018.5	1019.8	1019.7	1017.7		
S.D.	7.932	7.832	7.359	7.009	4.762	4.491	3.714	3.272	3.852	5.698	6.066	8.000	6.209		
TOTAL OBS	312	242	312	300	312	300	312	312	300	312	300	312	3651		
MEAN	1019.7	1019.8	1019.1	1019.2	1016.2	1016.8	1017.4	1018.6	1017.9	1019.4	1020.5	1020.4	1019.4		
S.D.	8.016	7.657	7.622	7.222	4.752	4.457	3.75	3.285	3.937	5.749	6.164	7.998	6.206		
TOTAL OBS	312	242	312	300	312	300	312	312	300	312	300	300	3651		
MEAN	1020.1	1020.7	1019.7	1019.5	1016.5	1017.2	1017.8	1019.1	1018.9	1020.1	1021.3	1021.4	1019.7		
S.D.	8.127	7.703	7.912	7.455	4.824	4.475	3.742	3.316	4.017	5.982	6.263	8.37	6.434		
TOTAL OBS	312	242	312	300	312	300	312	312	300	312	300	300	3651		
MEAN	1019.7	1019.1	1017.3	1017.3	1015.6	1016.5	1017.3	1018.4	1017.4	1018.6	1019.5	1019.5	1017.9		
S.D.	8.194	7.470	5.830	7.416	4.871	4.594	3.807	3.343	4.016	5.920	6.093	8.017	6.170		
TOTAL OBS	312	242	312	300	312	300	312	312	300	312	300	300	3651		
MEAN	1019.0	1017.8	1015.9	1016.0	1014.5	1015.6	1016.2	1017.3	1016.4	1017.8	1018.8	1019.8	1016.9		
S.D.	8.177	7.944	7.980	7.279	4.830	4.686	3.824	3.313	3.985	5.682	6.144	7.917	6.346		
TOTAL OBS	312	242	312	300	312	300	312	312	300	312	300	300	3651		
MEAN	1019.0	1017.7	1016.6	1016.5	1014.3	1015.7	1016.3	1017.4	1016.7	1018.6	1019.7	1019.8	1017.8		
S.D.	7.993	8.31	7.582	6.997	4.738	4.437	3.727	3.167	3.941	5.676	6.003	7.946	6.293		
TOTAL OBS	312	242	312	300	312	300	312	312	300	312	300	300	3651		
MEAN	1019.6	1019.4	1017.7	1017.9	1015.3	1016.6	1017.3	1018.4	1017.6	1019.3	1020.3	1020.1	1018.7		
S.D.	7.878	7.994	7.273	6.917	4.623	4.355	3.699	3.124	3.907	5.685	6.944	7.998	6.172		
TOTAL OBS	312	242	312	300	312	300	312	312	300	312	300	300	3651		
ALL HOURS	1019.2	1019.2	1017.4	1017.3	1015.5	1016.3	1017.3	1018.1	1017.4	1018.9	1020.0	1019.9	1018.0		
S.D.	8.050	7.864	7.651	7.172	4.812	4.519	3.782	3.307	3.982	5.799	6.105	8.008	6.313		
TOTAL OBS	2421	2256	2421	2400	2472	2400	2420	2480	2400	2480	2400	2470	29235		

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# MEANS AND STANDARD DEVIATIONS

STATION PRESSURE IN INCHES FROM HOURLY OBSERVATIONS

STATION NAME

71-02

STATION

STATION NAME

YEARS

HRS. LST.	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL
MEAN	.07470	.07270	.07340	.07520	.07529	.07730	.07830	.07830	.07830	.07830	.07830	.07830	.07830
S. D.	.272	.270	.213	.271	.140	.132	.100	.096	.112	.156	.176	.276	.191
TOTAL OBS	310	222	310	300	310	300	310	310	300	310	300	300	3000
MEAN	.07730	.07330	.07670	.07520	.07529	.07730	.07830	.07830	.07830	.07830	.07830	.07830	.07830
S. D.	.274	.276	.214	.277	.140	.133	.100	.097	.114	.167	.176	.276	.192
TOTAL OBS	310	222	310	300	310	300	310	310	300	310	300	300	3000
MEAN	.07570	.07330	.07470	.07520	.07529	.07730	.07830	.07830	.07830	.07830	.07830	.07830	.07830
S. D.	.274	.276	.214	.277	.140	.133	.100	.097	.114	.167	.176	.276	.192
TOTAL OBS	310	222	310	300	310	300	310	310	300	310	300	300	3000
MEAN	.07370	.07330	.07670	.07520	.07529	.07730	.07830	.07830	.07830	.07830	.07830	.07830	.07830
S. D.	.274	.276	.214	.277	.140	.133	.100	.097	.114	.167	.176	.276	.192
TOTAL OBS	310	222	310	300	310	300	310	310	300	310	300	300	3000
MEAN	.07370	.07330	.07670	.07520	.07529	.07730	.07830	.07830	.07830	.07830	.07830	.07830	.07830
S. D.	.274	.276	.214	.277	.140	.133	.100	.097	.114	.167	.176	.276	.192
TOTAL OBS	310	222	310	300	310	300	310	310	300	310	300	300	3000
MEAN	.07370	.07330	.07670	.07520	.07529	.07730	.07830	.07830	.07830	.07830	.07830	.07830	.07830
S. D.	.274	.276	.214	.277	.140	.133	.100	.097	.114	.167	.176	.276	.192
TOTAL OBS	310	222	310	300	310	300	310	310	300	310	300	300	3000
MEAN	.07370	.07330	.07670	.07520	.07529	.07730	.07830	.07830	.07830	.07830	.07830	.07830	.07830
S. D.	.274	.276	.214	.277	.140	.133	.100	.097	.114	.167	.176	.276	.192
TOTAL OBS	310	222	310	300	310	300	310	310	300	310	300	300	3000
MEAN	.07370	.07330	.07670	.07520	.07529	.07730	.07830	.07830	.07830	.07830	.07830	.07830	.07830
S. D.	.274	.276	.214	.277	.140	.133	.100	.097	.114	.167	.176	.276	.192
TOTAL OBS	310	222	310	300	310	300	310	310	300	310	300	300	3000
MEAN	.07370	.07330	.07670	.07520	.07529	.07730	.07830	.07830	.07830	.07830	.07830	.07830	.07830
S. D.	.274	.276	.214	.277	.140	.133	.100	.097	.114	.167	.176	.276	.192
TOTAL OBS	310	222	310	300	310	300	310	310	300	310	300	300	3000
ALL HOURS	.07370	.07330	.07670	.07520	.07529	.07730	.07830	.07830	.07830	.07830	.07830	.07830	.07830
S. D.	.274	.276	.214	.277	.140	.133	.100	.097	.114	.167	.176	.276	.192
TOTAL OBS	2479	2256	2480	2400	2479	2399	2480	2480	2400	2480	2400	2400	29203

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